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express my appreciation  
Dr. Cressy L. Wilbur, the

NGTON GARDNER,  
*Secretary of State.*

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THIRTIETH ANNUAL REPORT

RELATING TO THE

REGISTRY AND RETURN

OF

BIRTHS, MARRIAGES AND DEATHS

MICHIGAN

FOR THE YEAR 1896

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BY THE SECRETARY OF STATE OF THE STATE OF MICHIGAN

---

EDITED BY  
CRESSY L. WILBUR, M. D.,  
CHIEF OF THE DIVISION OF VITAL STATISTICS



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BY AUTHORITY

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LANSING  
ROBERT SMITH PRINTING COMPANY, STATE PRINTERS AND BINDERS  
1898

## AUTHORITY FOR PUBLICATION AND DISTRIBUTION.

HOWELL'S ANNOTATED STATUTES, SUPPLEMENT 1888-1890. SECTIONS 26g, 26j, AND 26n,  
BEING SECTIONS 7, 10 AND 14 OF PUBLIC ACT NO. 122 OF 1889.

§ 26g. SEC. 7. There shall be published a sufficient number of copies of the reports of the several officers, boards of officers, and public institutions of this State, now or hereafter required to make reports, not mentioned in sections eight, nine, ten and eleven of this act, and be bound together as joint documents of the fiscal or calendar year for which such reports are made, to supply the following persons, officers, libraries, corporations and societies, viz.: State officers and their deputies, ex-State officers, libraries of State officers, officers and libraries of State institutions, members and libraries of State boards, senators and representatives of this State in Congress, the United States senate library and the library of Congress, members of the legislature of the year for which said joint documents are published, justices of the supreme court, judges of the circuit courts, county clerks, county treasurers and judges of probate, public, free and incorporated libraries, public schools having a library, and publishers of newspapers published at that time in this State. That in addition to the foregoing there shall be published of said reports as joint documents, three hundred and fifty copies, one hundred and fifty copies of which shall be deposited in the State library for use in said library and for exchanges and the remaining two hundred copies shall be deposited in the office of Secretary of State to supply future demands.

§ 26j. SEC. 10. That a sufficient number of copies of the annual report of the Secretary of State on births, marriages and deaths shall be printed and bound for distribution, in the same manner as the joint documents; also a sufficient number to supply the officers making returns of births and deaths compiled in said report or their successors in office with one copy each, for depositing one hundred and fifty copies in the State library for use in said library and for exchanges, two hundred copies in the office of the Secretary of State as in the case of the joint documents, and two hundred copies in the office of the State board of health for distribution by said board in their discretion.

§ 26n. SEC. 14. That it shall be the duty of the Secretary of State to direct and oversee the prompt distribution of the laws, journals, documents, and reports mentioned in this act, whose distribution is not otherwise provided for: and said laws, journals, documents and reports shall be shipped to the several county clerks in the State, and be distributed by them to the persons, officers, corporations, and societies within their respective counties entitled to the same, and that, until so distributed, they shall be carefully preserved by said county clerks. That the accounts for boxes furnished to the Secretary of State for package and distribution shall be audited and allowed by the board of State auditors and paid out of the State treasury, and the expense of transportation from the office of the Secretary of State to the county clerks, and of distribution by the county clerks to the persons entitled to the same shall be audited and allowed by the boards of supervisors and paid out of the county treasuries: *Provided, however,* That the Secretary of State may, in his discretion, personally deliver or ship directly to any of the persons, officers, corporations, or societies entitled to any book or books mentioned in this act.

 Applications for this Report should be made directly to the Secretary of State, Lansing.

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## LETTER OF TRANSMITTAL.

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MICHIGAN,  
DEPARTMENT OF STATE, }  
*Lansing, November, 1898.*

HON. HAZEN S. PINGREE, *Governor of Michigan:*

SIR—I hereby transmit, in accordance with law, the Thirtieth Annual Registration Report of Michigan, containing the statistics of the births, marriages and deaths that were reported as having occurred in this State during the year 1896.

This Report is somewhat delayed, owing to the tardy returns provided by the old registration law. The new registration law for deaths went into effect on August 29, 1897, and from that time to the present a regular *Monthly Bulletin of Vital Statistics* has been issued by this Department. The Report for the present year, 1898, will be issued early next year. Thus, timely and reliable mortality statistics having become available for the State, the old series of reports, of which this is the last volume but one, becomes of less importance.

The laws for the collection of deaths, marriages and divorces are now in excellent condition in this State. That for the collection of births needs revision, no change having been made therein since 1869. The complete success of the improved method of registering deaths would seem to justify a similar change in the registration of births. It is believed that prompt and efficient registration of the latter can be had with but slightly increased expense over the tardy and imperfect returns under the present system.

In making this, my final report of the work in the Division of Vital Statistics, I desire to improve the opportunity to express my appreciation of the valuable services rendered the State by Dr. Cressy L. Wilbur, the accomplished Chief of that Division.

Very respectfully,

WASHINGTON GARDNER,  
*Secretary of State.*





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### ERRATA.

In synopsis of tables relating to marriage, on page 47, numbers 34 and 35 should be transposed. In synopsis of tables relating to causes of death, on page 125, numbers 75 and 76 should be transposed. In Table 63a, page 126, second column, read "Total deaths, 1896."

## DIAGRAMS.

<b>DIAGRAM I.—DEATH RATES IN MICHIGAN, BY IMPORTANT PERIODS OF AGE, FOR THE QUINQUENNIAL PERIODS, 1870-74, 1875-79, 1880-84, 1885-89, 1890-94, AND FOR THE YEARS 1895 AND 1896.....</b>	<b>facing page 83</b>
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# THIRTIETH ANNUAL

## REGISTRATION REPORT OF MICHIGAN.

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### PART I.—VITAL STATISTICS AND POPULATION, 1896.

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This part of the Annual Registration Report contains the general tables comparing the returns of births, marriages and deaths for the year 1896 in every county of the State, and also showing how the total number of such returns for the State compares with the results of previous years. This latter comparison is necessarily made on the basis of rates per 1,000 population, as the aggregate number of returns of each class would normally show an increase depending on the increase of population. The relation of the vital statistics, and especially the statistics of births and deaths, to an element of the increase of population, viz., the natural increase or excess of births over deaths, is also shown.

The Michigan statistics of marriages are reliable, and comparable without correction for omissions with the statistics of any State or country. The statistics of births and deaths, as given in this and all preceding Reports, are not fully reliable (except for certain purposes not requiring an exhaustive registration), and must be increased by an uncertain, variable and practically indeterminable percentage before the rates based on them can be compared with accurate natality or mortality statistics. It has been the custom of the compilers of this Report, in default of any other and better statistics, to endeavor to derive as much valuable information from the imperfect data collected under the old registration law as possible. With the utmost pains, however, the conclusions were subject to question on account of the lack of accurate rates, and for this reason much of the work done on the Michigan vital statistics for years past has been practically wasted. Certainly it has met with very little acceptance and use in the statistical world, which cannot be expected to struggle with faulty data, and examine hypothetical conclusions based thereon, when reliable statistics are elsewhere available. In this respect Michigan has been on a par with the country as a whole, which has continued to put forth for half a century, in the vital statistics of the decennial censuses, mortality statistics which were only a degree superior to the Michigan data.

A change is at hand, and for this State the act passed in 1897 and going into practical effect on August 29, 1897, has for the first time put our mortality statistics on a satisfactory basis. A law for the registration of divorces was also passed by this



session of the legislature, so that beginning with 1897 we have reliable returns of deaths and divorces based upon immediate registration. As stated before, our marriage statistics are of an excellent character, and have been satisfactorily returned since the marriage license law of 1887. We have remaining, then, under the old, imperfect system, only the returns of births, and there is little doubt that the legislature, at an early day, will so change the method of collecting these returns that the results will be more accurate and properly compare with the returns of deaths, marriages and divorces.

It accordingly seemed proper in the preparation of the present Report to make the observations on the imperfect returns of births and deaths as brief as possible, and to present only the usual series of tables so that comparisons might be continued down to the close of the old system. No new studies have been begun, as the principal work of the Department relative to vital statistics has been directed to the administration and compilation of data under the new registration law (Public Act No. 217 of 1897). The preliminary results under this law have already appeared from month to month in the *Michigan Monthly Bulletin of Vital Statistics* issued by this Department, and the detailed data for the year 1898 will appear in the next Annual Report.

#### SUMMARY OF REGISTRATION RETURNS FOR THE YEAR 1896.

The following are the general results of registration for 1896. For further particulars see the summaries at the beginning of each part of this Report, and also the general list of tables and alphabetical index:

Total number of marriages,	-	-	-	-	-	-	18,897
Persons married,	-	-	-	-	-	-	37,794
Persons married per 1,000 estimated population,	-	-	-	-	-	-	16.3
Total number of births,	-	-	-	-	-	-	46,302
Births per 1,000 estimated population,	-	-	-	-	-	-	20.0
Total number of deaths,	-	-	-	-	-	-	21,983
Deaths per 1,000 estimated population,	-	-	-	-	-	-	9.5
Natural increase of population,	-	-	-	-	-	-	24,319
Natural increase per 1,000 estimated population,	-	-	-	-	-	-	10.5

#### PRESERVATION AND IMPORTANCE OF VITAL RECORDS.

From the beginning of registration, April 5, 1867, to the close of the year covered by this Report, 1896, there have been registered the following total numbers of returns of each class:

Total number of marriages registered,	-	-	-	-	488,649
Total number of births registered,	-	-	-	-	1,131,603
Total number of deaths registered,	-	-	-	-	483,322
Aggregate number of births, marriages and deaths,	-	-	-	-	2,053,574

These returns are all preserved in the office of the Secretary of State at Lansing, in bound volumes, carefully indexed, and are available for consultation by any citizen of the State. Certified copies of particular entries are frequently applied for and made upon payment of a nominal fee, barely covering cost of time of clerk engaged in searching for the name upon the indexes. All fees are, of course, covered into the State Treasury. The information supplied is often of the greatest personal and legal importance to individuals, aiding in the establishment of claims.

# BIRTHS, MARRIAGES AND DEATHS RETURNED, 1896 3

to inheritances, pension claims, and the like. The laws of most European countries are very strict, requiring official proofs of marriage, birth and death, before, for example, property devised to a deceased resident of Michigan will be surrendered to his widow or children.

*Synopsis of tables showing the general results of registration of vital statistics in Michigan and their relation to population.*

Table.	Vital statistics and population.
1.	Marriages, births, deaths and natural increase of population in Michigan in 1896. <i>Vital rates.</i>
2.	Relation of registration returns to population, giving the number of persons married, births, deaths and natural increase of population per 1,000 inhabitants for each year of the period 1868-96 (stillbirths included in births and deaths).
3.	Births and deaths, birth rates and death rates, for the years 1867-96, with exclusion of stillbirths.
4.	Comparative table, showing the results of the National and State census enumerations of births and deaths in Michigan from 1870 to 1894. <i>Registration by counties.</i>
5.	Number of marriages, births, deaths and natural increase of population for each county of the State in the year 1896, with rates per 1,000 estimated population.
6.	Comparison of the returns of marriages, births and deaths from each county in the State for the year 1896, with the corresponding returns for 1895, showing the increase or decrease in each county of each class of returns.

## VITAL STATISTICS RETURNED FOR 1896.

Table 1 gives a statement of the number of marriages, births, deaths and excess of births over deaths recorded for the year 1896. In order to make these numbers more easily comprehended, calculations are given of the average number of each returned for certain subdivisions of the year. Thus 52 marriages occurred, on the average, on each day of the year 1896 in the State. There were 127 children born and 60 deaths in the same time. The net daily increase of the population of the State, aside from the number added by immigration, was 67 persons.

**Table 1.**—*Number of marriages, births, deaths and excess of births over deaths in Michigan during the year 1896, with the average number of certain subdivisions of the year.*

Periods of time, 1896.	Marriages, 1896.	Births, 1896.	Deaths, 1896.	Excess of births over deaths, 1896.
Total for year.....	18,897	46,302	21,963	24,319
Average number per quarter.....	4,724	11,576	5,496	6,080
Average number per month.....	1,575	3,859	1,832	2,027
Average number per week.....	363	890	423	468
Average number per day.....	52	127	60	67

**Table 2.**—*Number of marriages, births and deaths registered in Michigan from 1867 to 1896, with the excess of births over deaths for each year; also the rates per thousand of persons married, births, deaths and excess of births over deaths for each year based on populations of United States and State censuses, and estimated populations for intercensal years. (Stillbirths included in both births and deaths.)*

Years.	Population.	Registration returns, 1867-96.				Rates per 1,000 population.			
		Number of marriages.	Number of births.	Number of deaths.	Excess of births over deaths.	Persons married.	Births.	Deaths.	Excess of births over deaths.
1867*	993,902	4,312	14,000	4,400	9,591	-----	-----	-----	-----
1868	1,057,288	8,697	25,020	8,235	16,785	16.5	23.7	7.8	15.9
1869	1,120,673	8,459	27,093	9,145	17,948	15.1	24.2	8.2	16.0
1870†	1,184,059	9,791	26,663	10,766	15,897	16.5	22.5	9.1	13.4
1871	1,221,552	10,605	25,992	9,728	16,264	17.4	21.3	8.0	13.3
1872	1,259,045	10,752	27,993	13,371	14,622	17.1	22.2	10.6	11.6
1873	1,296,538	11,897	34,606	14,258	20,350	18.4	26.7	11.0	15.7
1874†	1,334,031	12,255	31,151	12,500	18,651	18.4	23.4	9.4	14.0
1875	1,384,515	11,851	31,958	11,990	19,968	17.1	23.1	8.7	14.4
1876	1,435,000	11,913	34,235	12,576	21,659	16.6	23.9	8.8	15.1
1877	1,485,484	11,899	33,395	12,919	20,476	16.0	22.5	8.7	13.8
1878	1,535,968	12,880	35,162	12,766	22,396	16.8	22.9	8.3	14.6
1879	1,586,453	13,892	34,122	14,407	19,715	17.5	21.5	9.1	12.4
1880†	1,636,937	14,935	35,323	16,102	19,221	18.2	21.6	9.8	11.7
1881	1,691,117	15,894	34,749	19,238	15,511	18.8	20.5	11.4	9.2
1882	1,745,298	16,830	37,026	16,425	20,601	19.3	21.2	9.4	11.8
1883	1,799,478	17,174	40,809	16,906	23,903	19.1	22.7	9.4	13.3
1884†	1,853,658	15,989	40,408	18,056	22,352	17.3	21.8	9.7	12.1
1885	1,893,697	15,885	42,119	16,646	25,473	16.8	22.2	8.8	13.5
1886	1,933,735	16,665	41,095	18,187	22,908	17.2	21.3	9.4	11.8
1887	1,973,774	17,179	46,226	19,482	26,744	17.4	23.4	9.9	13.5
1888	2,013,812	17,297	48,952	21,764	27,188	17.2	24.3	10.8	13.5
1889	2,053,851	18,317	49,272	20,315	28,957	17.8	24.0	9.9	14.1
1890†	2,093,889	18,664	52,306	21,642	30,664	17.8	25.0	10.3	14.6
1891	2,130,827	19,244	50,812	22,079	28,733	18.1	23.8	10.4	13.5
1892	2,167,765	20,107	46,221	21,729	24,492	18.6	21.3	10.0	11.3
1893	2,204,703	19,197	47,722	21,982	25,740	17.4	21.6	10.0	11.7
1894†	2,241,641	18,220	44,596	20,959	23,637	16.3	19.9	9.3	10.5
1895	2,278,579	18,952	46,273	22,757	23,516	16.6	20.3	10.0	10.3
1896	2,315,517	18,897	46,302	21,983	24,319	16.3	20.0	9.5	10.5

\* From April 5 to December 31, 1867. This was the first year of State registration, and the returns are not comparable with later years when the system was fully established.

† Census years.

**Table 3.**—*Number of births and deaths exclusive of stillbirths registered in Michigan for the years 1867-96 inclusive; with rates per 1,000 population. Also the number of stillbirths registered for each year, stillbirth rate per 1,000 population and ratio of stillbirths per thousand births and per thousand deaths.*

Years.	Population.	Registration returns, 1867-96.			Rates per 1,000 population.			Still- births per 1,000 births.	Still- births per 1,000 deaths.
		Number of births.	Number of deaths.	Number of still- births.	Births.	Deaths.	Still- births.		
1867*-----	993,902	13,979	4,409	+ } 21	-----	-----	-----	1.5	-----
1868-----	1,057,288	24,968	8,189	+ } 52 46	23.6	7.7	-----	2.1	5.6
1869-----	1,120,673	26,952	9,016	+ } 141 129	24.0	8.0	+ } .1 .1	5.2	14.3
1870 +-----	1,184,059	26,589	10,540	+ } 74 226	22.5	8.9	+ } .1 .2	2.8	21.4
1871-----	1,221,552	25,904	9,460	+ } 88 268	21.2	7.7	+ } .2 .2	3.4	28.3
1872-----	1,259,045	27,692	13,167	+ } 301 204	22.0	10.5	+ } .2 .2	10.9	15.5
1873-----	1,296,538	34,260	13,984	+ } 348 274	26.4	10.8	+ } .3 .2	10.2	19.6
1874 +-----	1,334,031	30,687	12,036	464	23.0	9.0	.3	15.1	38.6
1875-----	1,384,515	31,329	11,361	629	22.6	8.2	.5	20.1	55.4
1876-----	1,435,000	33,589	11,930	646	23.4	8.3	.5	19.2	54.2
1877-----	1,485,484	32,675	12,199	720	22.0	8.2	.5	22.0	59.0
1878-----	1,535,968	34,369	11,973	793	22.4	7.7	.5	23.1	66.2
1879-----	1,586,453	33,373	13,658	749	21.0	8.6	.5	22.4	54.8
1880 +-----	1,636,937	34,585	15,364	738	21.1	9.4	.5	21.3	48.0
1881-----	1,691,117	34,058	18,547	691	20.1	11.0	.4	20.3	37.3
1882-----	1,745,296	36,234	15,633	792	20.8	9.0	.5	21.9	50.7
1883-----	1,799,478	39,925	16,022	884	22.2	8.9	.5	22.1	55.2
1884 +-----	1,853,658	39,489	17,137	919	21.3	9.2	.5	23.3	53.6
1885-----	1,893,697	41,111	15,638	1,008	21.7	8.3	.5	24.5	64.5
1886-----	1,933,735	40,186	17,278	909	20.8	8.9	.5	22.6	52.6
1887-----	1,973,774	45,329	18,585	897	23.0	9.4	.5	19.8	48.3
1888-----	2,013,812	47,594	20,406	1,358	23.6	10.1	.7	23.5	66.5
1889-----	2,053,851	48,070	19,113	1,202	23.4	9.3	.6	25.0	62.9
1890 +-----	2,093,889	50,909	20,245	1,397	24.3	9.7	.7	27.4	69.0
1891-----	2,130,827	49,722	20,989	1,090	23.3	9.9	.5	21.9	51.9
1892-----	2,167,765	45,207	20,715	1,014	20.9	9.6	.5	22.4	49.0
1893-----	2,204,703	46,703	20,963	1,019	21.2	9.5	.5	21.8	48.6
1894 +-----	2,241,641	43,594	19,957	1,002	19.4	8.9	.4	22.5	50.2
1895-----	2,278,579	45,164	21,648	1,109	19.8	9.5	.5	24.0	48.7
1896-----	2,315,517	45,048	20,729	1,254	19.5	9.0	.5	27.1	57.0

\* From April 5 to December 31, 1867. This was the first year of State registration, and the returns are not comparable with later years when the system was fully established.

† Census years.

‡ For these years two statements are given of the number of stillbirths, the upper figures representing the number returned in births, the lower in deaths. In 1867 stillbirths were not compiled as deaths. Beginning with 1874, stillbirths returned in births and deaths have been compared, duplicates eliminated, and the true number of distinct cases entered in the tables of both births and deaths.

## VITAL STATISTICS AND POPULATION, 1897-96.

In Table 2 the course of registration in Michigan may be examined from its commencement in 1867 to the present time. The actual numbers of births, marriages and deaths returned for each year are stated, and also the corresponding rates per 1,000 population. While it should be understood that the absolute rates given in this table, except those for marriages, are far below the truth, it is probable that the returns of births and deaths are defective by about the same amount each year, and hence the variations of the birth rates and death rates shown in this table may be accepted as approximately reliable. To this statement an important exception must, unfortunately, be made in the rates given for the years 1887-91 for births, and also, though probably to a less extent, for deaths. This irregularity arose from fraudulent returns made from the city of Detroit; its nature and the probable amount of sophistication were explained in the Report for 1892.

The birth rates and death rates given in Table 2 for Michigan are not strictly comparable with those of most other states or countries, even apart from the inaccuracy of the returns in this State under the present system of registration, on account of the inclusion of stillbirths. It is the prevailing practice to exclude these from deaths, and generally also from births, since they do not add to the population as the latter nor diminish it as the former. In the Michigan reports stillbirths have been included in all the tables, both of births and deaths, with, as a result, considerable inconvenience in some respects, especially as to the death rates of children under one year and under five years of age. In Table 3 a statement is given of the number of stillbirths recorded for each year of registration, the corresponding still-birth rates, and the birth rates and death rates with exclusion of stillbirths. It is there seen that stillbirths have constituted about two per cent of all births, and about five per cent of all deaths registered since 1875. Prior to that time the stillbirths returned in both births and deaths were not put together, as at present, so that different numbers were compiled for these two classes of returns. In 1867 also, the first year of registration, stillbirths were not compiled with deaths.

**Table 4.**—*Births, deaths and natural increase in Michigan, with rates per thousand population according to the United States censuses of 1870, 1880 and 1890, and the State censuses of 1874, 1884 and 1894.*

Years.	Popula- tion.	Census returns.			Rates per 1,000 population.		
		Births.	Deaths.	Natural increase.	Births.	Deaths.	Natural increase.
National census of 1870.....	1,184,059	34,530	11,181	23,349	29.2	9.4	19.8
State census of 1874.....	1,334,031	-----	* 14,280	-----	-----	10.7	-----
National census of 1880.....	1,636,937	45,843	19,743	26,100	28.0	12.1	15.9
State census of 1884.....	1,853,658	53,775	19,979	33,796	29.0	10.7	18.3
National census of 1890.....	2,093,889	51,931	25,016	26,915	24.8	11.9	12.9
State census of 1894.....	2,241,641	59,889	23,796	36,093	26.7	10.6	16.1

\* For calendar year 1873.

Table 4 enables the results of the various enumerations of births and deaths in Michigan that have been made in connection with the several United States and State censuses to be compared with one another, and with the results of the State registration. While the rates obtained by the census methods are somewhat higher

than those by the annual registration, they are too low to correctly show the facts. All attempts to obtain vital statistics by enumeration after the close of the census year are necessarily imperfect. The new registration law in force August 29, 1897, will give the first reliable statistics of mortality for Michigan, and it is to be hoped that the registration of births in this State will be improved by the next session of the legislature.

## BIRTH, MARRIAGE AND DEATH RATES BY COUNTIES, 1896.

Table 5 compares the returns of births, marriages and deaths from each county of the State with the estimated population for the year. The returns of marriages are probably more correct than those of births and deaths, some of the sparsely settled counties of the State making very imperfect returns of the latter. For this reason, direct comparisons of the vital rates of different counties can rarely be made with any satisfactory assurance of reliability.

The average marriage rate for the State was 16.3 persons married per 1,000 population. It will be noticed that this method of statement refers to persons married, not number of marriages, which is evidently one-half of the above rate, or 8.2 marriages per 1,000. Some of the counties having high marriage rates for the year are as follows: Alger, 56.2; Chippewa, 20.3; Crawford, 19.3; Emmet, 19.8; Gladwin, 19.4; Gratiot, 19.0; Lenawee, 19.1; Newaygo, 19.5; Oscoda, 20.5; Shiawassee, 19.8; St. Joseph, 21.3. Low rates are given for the counties of Alpena, 13.3; Clare, 12.5; Huron, 12.8; Iron, 7.0; Keweenaw, 8.2; Leelanau, 12.1; Luce, 13.9; Mason, 12.2; Menominee, 12.2; Midland, 12.1; Missaukee, 11.9; Montmorency, 13.0; Muskegon, 13.0; Ontonagon, 8.5; Presque Isle, 12.9; Roscommon, 8.2.

A much greater range of variation is noticeable in the county birth rates than in the rates for persons married. Some of the counties having high rates for the year, the average being 20.0 per 1,000, are as follows: Alger, 43.9; Dickinson, 39.8; Gogebic, 44.8; Houghton, 38.2; Iron, 35.2; Marquette, 33.0; Menominee, 35.4. Counties with low rates are: Branch, 13.7; Calhoun, 12.9; Eaton, 13.0; Genesee, 13.6; Hillsdale, 11.9; Kalamazoo, 13.6; Lenawee, 11.3; Oakland, 11.3; Ogemaw, 12.2; Ontonagon, 11.1; Roscommon, 13.6; Shiawassee, 12.4; Washtenaw, 13.0.

The old counties of the Lower Peninsula, having a large proportion of their population of native birth, are the ones that show few births.

The average death rate for the year, according to the returns, was 9.5 per 1,000 population. It is probable that this rate should be considerably increased to represent the true number of deaths that occurred, but such a factor of correction would not be uniformly applicable by counties. Some counties have much more perfect returns than others, and so suffer in the estimation of the casual reader, who does not make allowance for imperfect returns in some of those showing an apparently favorable mortality. As returned, the following counties show high rates of death for the year: Alger, 19.2; Dickinson, 13.1; Gogebic, 14.7; Luce, 14.4; Marquette, 14.2; Menominee, 14.1. Counties with very low rates are: Alcona, 6.1; Antrim, 6.8; Arenac, 6.6; Charlevoix, 6.2; Clare, 5.5; Gladwin, 4.0; Gratiot, 6.4; Isabella, 6.9; Kalkaska, 5.8; Lake, 6.3; Livingston, 6.5; Missaukee, 5.8; Newaygo, 6.0; Ogemaw, 3.2; Ontonagon, 6.6; Osceola, 6.8; Presque Isle, 5.5; Roscommon, 5.4; Schoolcraft, 6.4; Shiawassee, 6.6.

Owing to the irregularities in the returns of births and deaths from the different counties, not very much reliance can be placed upon the rates of natural increase or the excess of births over deaths per 1,000 population. The general indications, a high rate in the counties of the Upper Peninsula and in those containing the larger cities, with low rates for the agricultural communities of the southern part of the State, may be observed.

## VITAL STATISTICS OF MICHIGAN, 1896

**Table 5.**—*Number of marriages, births, deaths and excess of births over deaths registered in Michigan for the year 1896, by counties, with rates per 1,000 estimated population. (Stillbirths included in both births and deaths.)*

State and counties.	Estimated population of Michigan, June, 1896.*	Number of marriages registered, 1896.	Number of births registered, 1896.	Number of deaths registered, 1896.	Excess of births over deaths, 1896.	Rates per 1,000 population, 1896.			
						Persons married.	Births.	Deaths.	Natural increase.
State.....	2,315,517	18,897	46,302	21,983	24,319	16.3	20.0	9.5	10.5
Alcona.....	5,423	42	95	33	62	15.5	17.5	6.1	11.4
Alger.....	1,459	41	64	28	36	56.2	43.9	19.2	24.7
Allegan.....	39,308	330	717	378	339	16.8	18.2	9.6	8.6
Alpena.....	18,785	125	452	156	296	13.3	24.1	8.3	15.8
Antrim.....	13,484	106	243	91	152	15.8	18.1	6.8	11.3
Arenac.....	7,573	63	192	50	142	16.6	25.4	6.6	18.8
Baraga.....	4,830	38	96	40	56	15.7	19.9	8.3	11.6
Barry.....	23,657	229	377	183	194	19.4	15.9	7.7	8.2
Bay.....	63,750	479	1,404	585	869	15.0	22.0	8.4	13.6
Benzie.....	9,476	89	230	78	152	18.8	24.3	8.2	16.0
Berrien.....	47,810	435	695	387	308	18.2	14.5	8.1	6.4
Branch.....	25,913	238	355	248	107	18.4	13.7	9.6	4.1
Calhoun.....	49,458	408	638	411	227	16.3	12.9	8.3	4.6
Cass.....	21,288	186	312	185	127	18.4	14.7	8.7	6.0
Charlevoix.....	11,702	100	181	72	109	17.1	15.5	6.2	9.3
Cheboygan.....	14,857	112	377	118	259	15.1	25.4	7.9	17.4
Chippewa.....	16,974	172	414	200	214	20.3	24.4	11.8	12.6
Clare.....	8,185	51	155	45	110	12.5	18.9	5.5	13.4
Clinton.....	26,139	229	379	232	147	17.5	14.5	8.9	5.6
Crawford.....	2,584	25	59	22	37	19.3	22.8	8.5	14.3
Delta.....	21,228	154	525	187	338	14.5	24.7	8.8	15.9
Dickinson.....	15,074	130	600	197	403	17.2	39.8	13.1	26.7
Eaton.....	32,880	306	429	246	183	18.6	13.0	7.5	5.6
Emmet.....	11,825	117	199	116	83	19.8	16.8	9.8	7.0
Genesee.....	41,115	357	561	489	72	17.4	13.6	11.9	1.8
Gladwin.....	5,246	51	99	21	78	19.4	18.9	4.0	14.9
Gogebic.....	14,542	133	651	214	437	18.3	44.8	14.7	30.1
G'd Traverse.....	19,595	144	283	139	144	14.7	14.4	7.1	7.3
Gratiot.....	28,830	274	435	185	250	19.0	15.1	6.4	8.7
Hillsdale.....	30,078	256	356	285	74	17.0	11.9	9.5	2.5
Houghton.....	48,568	432	1,857	476	1,381	17.8	38.2	9.8	28.4
Huron.....	34,112	218	726	259	467	12.8	21.3	7.6	13.7
Ingham.....	40,701	335	585	380	205	16.5	14.4	9.3	5.0
Ionia.....	35,890	311	506	307	199	17.4	14.1	8.6	5.6
Iosco.....	10,898	77	249	98	151	14.1	22.8	9.0	13.9
Iron.....	5,427	19	191	64	127	7.0	35.2	11.8	23.4
Isabella.....	22,767	163	462	156	306	14.3	20.3	6.9	13.4
Jackson.....	47,297	447	669	496	173	18.9	14.1	10.5	3.7
Kalamazoo.....	43,448	406	591	414	177	18.7	13.6	9.5	4.1
Kalkaska.....	5,880	52	99	34	65	17.7	16.8	5.8	11.1
Kent.....	127,946	1,049	2,491	1,181	1,310	16.4	19.5	9.2	10.2
Keweenaw.....	2,693	11	77	27	50	8.2	28.6	10.0	18.6
Lake.....	5,593	40	118	35	83	14.3	21.1	6.3	14.8
Lapeer.....	28,712	246	469	205	264	17.1	16.3	7.1	9.2
Leelanau.....	10,281	62	271	90	181	12.1	26.4	8.8	17.6
Lenawee.....	48,588	464	551	422	129	19.1	11.3	8.7	2.7
Livingston.....	20,227	182	264	132	132	18.0	13.1	6.5	6.5
Luce.....	2,294	16	56	33	23	13.9	24.4	14.4	10.0
Mackinac.....	6,941	58	175	69	106	16.7	25.2	9.9	15.3
Macomb.....	32,674	243	634	317	317	14.9	19.4	9.7	9.7
Manistee.....	27,056	192	804	312	492	14.2	29.7	11.5	18.2
Marquette.....	38,972	306	1,287	553	734	15.7	33.0	14.2	18.8
Mason.....	19,440	119	475	158	317	12.2	24.4	8.1	16.3

\* For foot-note see next page.

# BIRTH, MARRIAGE AND DEATH RATES BY COUNTIES

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**Table 5.—CONCLUDED.—Returns and rates per 1,000 population, 1896.**

Counties.	Esti- mated popula- tion of Michi- gan, June, 1896.*	Number of mar- riages regis- tered, 1896.	Number of births regis- tered, 1896.	Number of deaths regis- tered, 1896.	Excess of births over deaths, 1896.	Rates per 1,000 population, 1896.			
						Persons married.	Births.	Deaths.	Natural increase.
Mecosta.....	21,245	161	381	154	227	15.2	17.9	7.2	10.7
Menominee.....	24,345	148	863	343	520	12.2	35.4	14.1	21.4
Midland.....	14,499	88	267	108	159	12.1	18.4	7.4	11.0
Missaukee.....	7,909	47	198	46	152	11.9	25.0	5.8	19.2
Monroe.....	33,603	302	712	333	379	18.0	21.2	9.9	11.3
Montcalm.....	34,919	261	581	292	289	14.9	16.6	8.4	8.3
Montmorency.....	2,914	19	59	31	28	13.0	20.2	10.6	9.6
Muskegon.....	35,980	234	717	361	356	13.0	19.9	10.0	9.9
Newaygo.....	18,449	180	297	111	186	19.5	16.1	6.0	10.1
Oakland.....	43,392	319	489	370	119	14.7	11.3	8.5	2.7
Oceana.....	17,050	160	362	135	227	18.8	21.2	7.9	13.3
Ogemaw.....	5,666	42	69	18	51	14.8	12.2	3.2	9.0
Ontonagon.....	8,432	36	94	56	38	8.5	11.1	6.6	4.5
Osceola.....	17,398	128	373	118	255	14.7	21.4	6.8	14.7
Oscoda.....	1,757	18	34	17	17	20.5	19.4	9.7	9.7
Otsego.....	5,055	40	112	39	73	15.8	22.2	7.7	14.4
Ottawa.....	40,946	305	902	321	581	14.9	22.0	7.8	14.2
Presque Isle.....	6,523	42	173	36	137	12.9	26.5	5.5	21.0
Roscommon.....	1,469	6	20	8	12	8.2	13.6	5.4	8.2
Saginaw.....	81,634	649	1,712	957	755	15.9	21.0	11.7	9.2
Sanilac.....	34,623	249	759	259	500	14.4	21.9	7.5	14.4
Schoolcraft.....	7,782	55	184	50	134	14.1	23.6	6.4	17.2
Shiawassee.....	33,805	334	418	224	194	19.8	12.4	6.6	5.7
St. Clair.....	55,429	471	925	441	484	17.0	16.7	8.0	8.7
St. Joseph.....	24,953	266	358	250	108	21.3	14.3	10.0	4.3
Tuscola.....	35,364	304	619	257	362	17.2	17.5	7.3	10.2
Van Buren.....	31,318	288	449	307	142	18.4	14.3	9.8	4.5
Washtenaw.....	44,159	324	572	421	151	14.7	13.0	9.5	3.4
Wayne.....	310,135	2,413	3,119	4,014	4,106	15.6	26.2	12.9	13.2
Wexford.....	15,432	136	301	117	184	17.6	19.5	7.6	11.9

\* Estimated by average annual increase as shown by State census of 1894 over U. S. census of 1890. Changes of territory have been allowed for as far as possible. See note on p. 11, preceding report.



## VITAL STATISTICS OF MICHIGAN, 1896

**Table 6.**—Comparing, by counties, the total number of marriages, births and deaths registered in Michigan for the years 1895-96; showing also the increase (or decrease) of the number registered for 1896 as compared with that of the preceding year. (Still-births included in births and deaths.)

State and counties.	Marriages.			Births.			Deaths.		
	Number in 1895.	Number in 1896.	Increase or decrease.*	Number in 1895.	Number in 1896.	Increase or decrease.*	Number in 1895.	Number in 1896.	Increase or decrease.*
State.....	18,897	18,962	-55	46,802	46,273	29	21,963	22,757	-774
Alcona.....	42	46	-4	95	95	-----	33	39	-6
Alger.....	41	16	25	64	53	11	28	27	1
Allegan.....	330	307	-37	717	756	-39	378	375	3
Alpena.....	125	144	-19	452	469	-17	156	174	-18
Antrim.....	106	110	-4	243	294	-51	91	96	-5
Arenac.....	63	61	2	192	172	20	50	65	-15
Baraga.....	38	35	3	96	108	-12	40	61	-21
Barry.....	229	228	1	377	311	66	183	196	-13
Bay.....	479	440	39	1,404	1,500	-186	535	554	-19
Benzie.....	89	71	18	230	163	67	78	57	21
Berrien.....	435	400	-25	695	642	53	387	399	-12
Branch.....	238	239	-1	355	398	-43	248	331	-83
Calhoun.....	403	426	-23	638	698	-60	411	463	-52
Cass.....	196	220	-24	312	313	-1	185	179	6
Charlevoix....	100	87	13	181	205	-24	72	80	-8
Cheboygan....	112	117	-5	377	369	8	118	142	-24
Chippewa.....	172	162	10	414	391	23	200	147	53
Clare.....	51	66	-15	155	169	-14	45	64	-19
Clinton.....	229	211	18	379	418	-39	232	239	-7
Crawford.....	25	29	-4	59	52	7	22	20	2
Delta.....	154	144	10	525	517	8	187	127	60
Dickinson....	130	102	28	600	759	-159	197	178	19
Eaton.....	306	305	-----	429	436	-7	246	309	-63
Emmet.....	117	118	-1	199	213	-14	116	111	5
Genesee.....	357	361	-4	561	600	-39	489	424	65
Gladwin.....	51	51	-----	99	115	-16	21	39	-18
Gogebic.....	133	124	9	651	581	70	214	206	8
G'd Traverse..	144	169	-25	283	343	-60	139	219	-80
Gratiot.....	274	263	11	435	476	-41	185	250	-65
Hillsdale....	256	273	-17	359	376	-17	235	308	-23
Houghton....	432	395	37	1,857	1,733	124	476	485	-9
Huron.....	218	247	-29	726	856	-130	259	269	-10
Ingham.....	335	389	-54	585	571	14	380	381	-1
Ionia.....	311	344	-33	506	448	58	307	332	-25
Iosco.....	77	83	-6	249	258	-9	98	102	-4
Iron.....	19	25	-6	191	150	41	64	35	29
Isabella.....	163	223	-60	462	437	25	156	159	-3
Jackson.....	447	385	62	669	755	-86	496	563	-67
Kalamazoo....	406	406	-----	591	711	-120	414	469	-55
Kalkaska.....	52	46	6	99	118	-19	34	62	-28
Kent.....	1,049	1,090	-41	2,491	2,409	82	1,181	1,420	-239
Keweenaw....	11	10	1	77	75	2	27	27	-----
Lake.....	40	42	-2	118	145	-27	35	45	-10
Lapeer.....	246	262	-16	469	413	56	205	252	-47
Leelanau.....	62	74	-12	271	253	18	90	84	6
Lenawee.....	464	427	37	551	627	-76	422	470	-48
Livingston....	182	178	4	264	266	-32	132	176	-44
Luce.....	16	23	-7	56	73	-17	38	13	20
Mackinac....	58	64	-6	175	101	74	69	36	33
Macomb.....	243	219	24	634	630	4	317	345	-28
Manistee.....	192	198	-6	804	802	2	312	230	82
Manitou.....	-----	2	-2	-----	-----	-----	-----	-----	-----
Marquette....	306	270	36	1,287	1,102	185	553	437	116
Mason.....	119	149	-30	475	472	3	158	141	17
Mecosta.....	161	173	-12	381	375	6	154	187	-33

\* In many cases, which are indicated by the minus sign (—), a decrease is shown for 1896, as compared with the preceding year.

RETURNS OF 1895 AND 1896 COMPARED BY COUNTIES 11

**Table 6.**—CONCLUDED.—Returns for 1895 and 1896 compared.

Counties.	Marriages.			Births.			Deaths.		
	Number in 1895.	Number in 1896.	Increase or de- crease.*	Number in 1895.	Number in 1896.	Increase or de- crease.*	Number in 1895.	Number in 1896.	Increase or de- crease.*
Menominee....	148	137	11	363	350	13	343	305	38
Midland.....	88	101	-13	267	276	-9	108	93	15
Missaukee.....	47	72	-25	198	208	-10	46	52	-6
Monroe.....	302	290	12	712	692	20	333	275	58
Montcalm.....	261	269	-8	581	613	-32	292	315	-23
Montmorency....	19	25	-6	59	63	-4	31	26	5
Muskegon.....	234	238	-4	717	715	2	361	346	15
Newaygo.....	180	151	29	297	307	-10	111	130	-19
Oakland.....	319	295	24	489	536	-47	370	409	-39
Oceana.....	160	191	-31	362	327	35	135	137	-2
Ogemaw.....	42	38	4	69	27	42	18	20	-2
Ontonagon†....	36	43	-7	94	94	56	56	56	56
Osceola.....	128	136	-8	373	357	16	118	140	-22
Oscoda.....	18	12	6	34	33	1	17	20	-3
Otsego.....	40	59	-19	112	134	-22	39	46	-7
Ottawa.....	305	283	22	902	893	9	321	371	-50
Presque Isle....	42	34	8	173	182	-9	36	50	-14
Rosecommon.....	6	11	-5	20	2	18	8	3	5
Saginaw.....	649	613	36	1,712	1,755	-43	957	954	3
Sanilac.....	249	238	11	759	743	16	259	323	-64
Schoolcraft....	55	71	-16	184	180	4	50	35	15
Shiawassee.....	334	353	-19	418	469	-51	224	246	-22
St. Clair.....	471	470	1	925	941	-16	441	466	-25
St. Joseph.....	266	243	23	358	347	11	250	231	19
Tuscola.....	304	288	16	619	622	-3	257	343	-86
Van Buren.....	288	266	22	449	429	20	307	318	-11
Washtenaw.....	324	320	4	572	641	-69	421	465	-44
Wayne.....	2,413	2,397	16	8,119	7,754	365	4,014	3,883	129
Wexford.....	136	139	-3	301	285	16	117	106	11

\* In many cases, which are indicated by the minus sign (-), a decrease is shown for 1896, as compared with the preceding year.

† The returns of births and deaths for Ontonagon county, 1895, were burned at the county seat.

## VARIATIONS IN RETURNS, BY COUNTIES, FROM 1895 TO 1896.

Table 6, introduced for the first time in the Report for 1892, is regarded as a very important one, not only for the general interest of its contents, but because it calls direct attention to any marked variation in the returns of any class of statistics from individual counties, and thus precludes the imposition of fraudulent returns to a large amount from any county without detection, as was the case with the fraudulent returns from Wayne county for the years 1887-91.

There is a decrease in the number of marriages returned for 1896 of 55 as compared with the preceding year. Of the 83\* counties in the State, 37 show an increased number of marriages, 43 a decreased number, and three counties, Eaton, Gladwin and Kalamazoo report exactly the same number for each year. The greatest gains are shown in the counties of Bay, 39; Houghton, 37; Jackson, 62; Lenawee, 37; Marquette, 36; Saginaw, 36. Counties showing the largest losses are Allegan, 37; Ingham, 54; Ionia, 33; Isabella, 60; Kent, 41; Mason, 30; Oceana, 31.

In births an increase of 29 is shown over the preceding year. Out of the 83 counties reporting 41 showed gains and 41 losses for the year as compared with 1895, and one county, Alcona, reports exactly the same number for each year. Counties showing large gains are Gogebic, 70; Houghton, 124; Kent, 82; Mackinac, 74; Marquette, 185; \*Ontonagon, 94; Wayne, 365. Large decreases appear in Bay, 186; Dickinson, 159; Huron, 130; Jackson, 86; Kalamazoo, 120; Lenawee, 76; Washtenaw, 69.

The largest amount of decrease was in the returns of deaths, which were 774 less than in 1895. Out of the 83 counties reporting 29 had more deaths in 1896 than in 1895; 53 had fewer deaths in 1896 than in 1895, and one county, Keweenaw, had exactly the same number in each year. Counties showing large increases were as follows: Chippewa, 53; Delta, 60; Genesee, 65; Manistee, 82; Marquette, 116; Ontonagon, 56†; Wayne, 131. Counties showing many deaths less in 1896 than in 1895 were: Branch, 83; Calhoun, 52; Eaton, 63; Grand Traverse, 80; Gratiot, 65; Jackson, 67; Kalamazoo, 55; Kent, 239; Ottawa, 50; Sanilac, 64; Tuscola, 86.

\* Excluding Manitou county which was disorganized after making returns for first quarter.

† The returns from Ontonagon county for the year 1896 were burned at the county seat.

## PART II.—BIRTHS IN MICHIGAN DURING THE YEAR 1896.

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The total number of births returned for the year 1896 was only 29 more than the number for the preceding year; consequently, with the assumed increase of population of the State, there was a decline in the birth rate from 20.3 per 1,000 population in 1895 to 20.0 in 1896. The latter rate is the lowest on record in the State with the exception of the year 1894, when the rate fell to 19.9.

The so-called registration of births in Michigan is now the only part of our State registration system in which a fatally defective method of collecting the statistics is employed. It is not a true registration of births at the time of their occurrence, but depends upon the efforts of the supervisors to make a correct enumeration in the spring of each year for the preceding calendar year. As from three to fifteen months may elapse from the occurrence of a birth until the supervisor places it upon record, and as during this time the family may have removed, relatives have died, or other events occurred that utterly preclude a correct registration, it is evident that many births that have actually occurred in the State are omitted in the annual enumeration. It is probable that the returns of births are slightly more correct than those of deaths were under the old law. There is not enough difference, however, to warrant us in placing any stress on the deductions obtained from the compilation of births, except in so far as for some special purposes representative statistics may be assumed to possess the same value that exhaustive statistics would possess. So far as the determination of the birth rate, the natural increase of population, and other important data dependent upon fairly reliable registration is concerned, the Michigan statistics of births are of very little value. For this reason the discussion of births in this and subsequent Reports will be as brief as possible until such time as the subject shall have been placed upon a more satisfactory basis by the enactment of an improved registration law for births.

The birth rates for individual counties are presented and discussed in Part I in connection with the returns of marriages and deaths (Table 5). In Table 6 comparisons are given for each county of the numbers returned for 1895 and 1896 of all classes of returns, and thus any marked increase or decrease may be readily noted. Reference should accordingly be made to these tables and the accompanying text for further information under these heads.

## SUMMARY OF THE REGISTRATION OF BIRTHS FOR THE YEAR 1896.

The following statements include the more important features of the registration of births in Michigan for the year 1896:

Total number of births returned,	46,302
Birth rate per 1,000 estimated population,	20.0

Exclusive of stillbirths, there were:

Children born alive,	45,048
Children born alive per 1,000 population,	19.5

Compared with the previous year, we have:

Increase of births returned for 1896 (46,302) from the number returned for 1895 (46,278)	29
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The following is the distribution of births returned according to sex:

Males,	23,869
Females,	22,860
Sex unknown or unspecified (47 of these stillborn),	73
Males born per 100 births of females,	107

The parent-nativity of children born in 1896, exclusive of births to parents of different nativities, may be stated:

Born of parents both of native birth,	19,892
Born of parents both of foreign birth,	16,420

Nationality or country of birth is more definite than general nativity. Following are certain nationalities most numerous represented as parents of children in Michigan:

Parents both Canadians,	3,256
Parents both Germans,	4,852
Parents both Hollanders,	1,120
Parents both Swedes,	1,144
Parents both Poles,	1,019

Classified by color, there were:

White,	46,055
Colored (black, 124; mulatto, 60; Indian, 68),	247

Of the 46,302 children born in 1896, according to the returns, there were:

Stillbirths (males, 687; females, 520; unknown, 47),	1,254
Stillbirth rate per 1,000 population,	.5
Stillbirths per 1,000 births,	27.1

Plural births are of interest. Besides seven sets of triplets, there were reported:

Twin children (males, 527; females, 511; unknown sex, 2),	1,040
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The reported rate of illegitimacy is low for Michigan. In 1896 there were returned:

Illegitimate births (males, 179; females, 188; unknown, 2),	369
Illegitimate births per 1,000 births,	8.0

*Synopsis of tables relating to births.*

Table.	Births in Michigan, 1896.
<i>A.—General discussion of births.</i>	
7.	Births, by months, for each of the years 1887-96, with average for the ten-year period.
8.	Births, by sex and months, in each county of the State in 1896, also number of births of males to 100 births of females for each county. With NOTE on color of children born in Michigan, 1896.
9.	By parent nativity and sex, the number and per cent of children born in Michigan, 1896.
10.	Parent nativity of children born in Michigan during the years 1887-96, with average for the ten-year period.
11.	Comparison of parent nativity of children born in Michigan during the years 1895-96, with averages for five quinquennial periods.
12.	Births, by parent nativity and sex, for each county of the State in 1896.
13.	Nationality of parents of children born in Michigan during the year 1896.
14.	Comparison of the number of children born in Michigan in 1896 of parents of given nationality with the number of marriages registered of corresponding nationality. Also ratios for 1894-95.
15.	Ratios of parents of children, by nationality, to corresponding population of Michigan, 1894-96.
16.	Nationality of parents of children by counties, 1896.
<i>B.—Stillbirths, plural and illegitimate births.</i>	
17.	Number of stillbirths, pairs of twins and illegitimate children born in each county of the State in 1896.
18.	Ratios of stillborn, twin and illegitimate children to total births for ten years, 1887-96. Statement of triplets.
19.	Months of birth, by sex, of stillborn, twin and illegitimate children, 1896.
20.	Parent nativity, by sex, of stillborn, twin and illegitimate children, 1896.
21.	Ratios of the sexes (number of males to 100 females) of children born alive, stillbirths, twins and illegitimates for ten years, 1887-96.
22.	Comparison of the parent nativity of plural births in Michigan for ten years, 1887-96.
23.	Comparison of the parent nativities of the mothers of illegitimate children born in Michigan for ten years, 1887-96.
24.	List of townships reporting that no births occurred in 1896.
25.	List of townships that failed to make returns of births for 1896.

## BIRTHS RETURNED BY MONTHS, 1887-96.

Table 7 shows the number of births returned for each month of the year 1896, and enables comparisons to be made with each of the previous years since 1887, and also with the average for the ten-year period, 1887-96. In 1896 the largest number of births occurred in August, the smallest number in February, thus agreeing with the average for the decennial period. The returns for the different months do not at all represent the true relations of the births that actually occurred in those periods of time. It is well known that by the present system of registration in this State a large number of births entirely fail of record each year. The largest amount of deficiency in this respect is found among the first months of the year, these months being most remote from the date of registration. The returns for December and the latter months of the year are much more perfect, though even with these at least four months elapse between the occurrence of the births and the time of recording them. For this reason it will be observed that if the same number of births actually occurred in each month of the year, the order of the months, as returned, would be in the reverse order of their procession in the year.

That the latter months of the year predominate in the years compared and also in the ten-year average, does not appear especially significant in view of the large margin of error involved in the data presented.

**Table 7.**—*Births returned, by months, for the years 1887-96 inclusive; with average for the ten-year period. (Stillbirths included.)*

Years.	Total for year.	Months.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1887.....	46,226	<i>3,122</i>	<i>3,150</i>	3,987	3,896	3,960	3,666	4,011	<b>4,266</b>	<b>4,331</b>	3,944	3,765	4,058	60
1888.....	48,952	3,531	<i>3,516</i>	4,099	3,953	4,214	4,133	4,223	<b>4,514</b>	4,415	4,305	3,811	4,193	45
1889.....	49,272	3,340	<i>3,104</i>	4,001	4,057	4,238	4,050	4,252	4,526	4,382	4,292	4,331	<b>4,646</b>	53
1890.....	52,306	4,130	<i>3,718</i>	4,356	4,407	4,568	4,313	4,397	4,651	4,517	4,219	4,223	<b>4,765</b>	42
1891.....	50,812	3,629	<i>3,534</i>	4,345	4,238	4,465	4,078	4,293	<b>4,702</b>	4,646	4,340	4,098	4,391	53
1892.....	46,221	<i>3,226</i>	3,315	3,745	3,928	3,977	3,681	3,929	4,168	4,088	3,918	3,853	<b>4,344</b>	49
1893.....	47,722	<i>3,346</i>	3,391	4,069	3,934	3,924	3,901	4,158	<b>4,351</b>	4,246	4,165	3,916	4,263	58
1894.....	44,596	<i>2,889</i>	3,020	3,854	3,896	3,866	3,735	3,917	3,961	3,778	3,750	3,684	<b>4,204</b>	22
1895.....	46,273	<i>3,204</i>	3,240	3,827	3,742	4,022	3,745	3,989	<b>4,346</b>	4,214	3,997	3,750	4,159	38
1896.....	46,302	3,322	<i>3,184</i>	3,781	3,862	3,918	3,697	3,879	<b>4,405</b>	4,208	3,994	3,842	4,155	55
Average, 1887-96..	47,668	3,375	<i>3,317</i>	4,006	3,991	4,115	3,900	4,105	<b>4,391</b>	4,283	4,092	3,927	4,318	48

Maxima in bold-faced type; minima in *italics*.

## BIRTHS BY COUNTIES MONTHS AND SEX, 1896.

Table 8 gives a detailed statement of the number of births, by sex and months, for each county of the State. In this table is also incorporated a statement of the ratio of male births to 100 female births in each county, and a NOTE appended to the table gives a full statement by counties, of the number and sex of all births of color other than white. Only 247 such were reported against a total of 46,055 white children born.

## BIRTHS BY COUNTIES, MONTHS AND SEX

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**Table 8.**—*Exhibiting, by counties and by sex, the number of births returned for the year, and for each month of the year 1896; also the number of males to 100 females. With note on color of children born. (Stillbirths included.)*

State and counties.	Births—males to 100 females.	Sex.	Months, 1896.													
			Year, 1896.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
State.....	107	Total..... Males..... Females..... Unknown.....	46,302 23,869 22,390 73	3322 1735 1583 4	3184 1661 1516 7	3781 1906 1868 7	3862 1946 1912 4	3918 1986 1929 3	3697 1930 1761 6	3879 2027 1845 7	4405 2255 2142 8	4208 2255 2045 1	3994 2026 1963 5	3842 2003 1834 5	4155 2208 1941 6	55 24 21 10
Alcona.....	90	Total..... Males..... Females.....	95 45 50	7 4 3	6 2 4	7 2 2	10 5 5	12 7 7	7 5 5	7 4 3	4 1 3	11 6 5	5 1 5	11 5 6	8 1 7	.....
Alger.....	73	Total..... Males..... Females.....	64 27 37	3 1 2	5 2 3	8 5 3	..... 5 .....	2 2 .....	9 4 5	6 1 5	4 2 2	16 5 11	3 1 2	6 2 4	2 2 .....	.....
Allegan.....	121	Total..... Males..... Females..... Unknown.....	717 392 323 2	45 28 17 .....	58 32 26 .....	63 34 29 .....	58 31 26 .....	60 32 29 .....	63 31 24 .....	56 32 34 .....	65 31 34 .....	64 38 26 .....	72 37 35 .....	57 32 23 .....	55 25 30 .....	1 1 .....
Alpena.....	123	Total..... Males..... Females.....	452 249 203	36 18 18	52 34 18	40 19 21	40 24 16	48 25 23	28 14 14	33 21 12	46 22 24	41 22 19	38 22 17	26 13 13	24 16 8	.....
Antrim.....	111	Total..... Males..... Females.....	243 128 115	12 5 7	14 6 8	26 14 12	20 7 13	21 14 7	25 15 10	26 11 15	22 8 14	22 13 9	21 13 8	19 12 7	15 10 5	.....
Arenac.....	102	Total..... Males..... Females.....	192 97 95	21 11 8	16 8 8	19 12 7	16 10 6	22 10 12	13 7 6	8 3 5	31 18 13	18 4 14	12 5 7	8 5 3	8 4 4	.....
Baraga.....	104	Total..... Males..... Females.....	96 49 47	10 5 5	11 3 8	12 8 4	14 9 5	9 7 2	5 1 4	12 6 6	12 2 8	2 1 3	4 4 3	7 2 2	4 3 3	6 3 2
Barry.....	130	Total..... Males..... Females.....	377 213 164	32 20 12	24 13 11	20 7 13	30 17 13	40 25 15	36 18 18	31 17 14	43 29 14	38 21 17	27 14 13	34 21 13	21 11 10	1 .....
Bay.....	106	Total..... Males..... Females..... Unknown.....	1,404 721 682 1	116 50 66 .....	111 61 50 .....	113 60 53 .....	113 49 64 .....	105 51 54 .....	107 63 44 .....	96 46 50 .....	146 86 59 1	129 62 67 .....	119 63 56 .....	125 71 54 .....	123 59 64 .....	.....
Benzie.....	92	Total..... Males..... Females.....	230 110 120	21 10 11	11 5 6	19 4 15	24 13 11	16 10 6	21 11 10	22 10 12	26 11 16	16 5 11	21 12 9	14 7 7	19 13 6	.....
Berrien.....	101	Total..... Males..... Females..... Unknown.....	695 343 341 11	45 20 25 .....	41 19 22 .....	55 29 26 .....	62 33 29 .....	58 26 32 .....	56 25 28 3	64 32 29 2	73 32 41 .....	53 25 28 .....	58 30 28 .....	57 30 27 .....	65 39 25 1	8 8 5 5
Branch.....	76	Total..... Males..... Females.....	355 159 202	33 12 21	14 8 6	22 10 12	32 14 18	35 11 24	33 18 15	29 13 16	41 16 25	33 18 15	24 7 13	26 13 13	33 20 20	.....
Calhoun.....	100	Total..... Males..... Females..... Unknown.....	638 317 317 4	57 29 28	42 24 18	46 17 27	57 26 31	52 25 26	39 15 24	54 26 28	59 32 27	55 27 28	68 37 38	52 29 23	57 38 19	.....
Cass.....	100	Total..... Males..... Females.....	312 156 156	11 8 3	15 6 9	24 17 7	26 12 14	26 8 18	30 10 20	29 15 14	35 19 16	18 8 10	21 19 11	28 17 11	30 15 15	.....
Charlevoix.....	103	Total..... Males..... Females.....	181 92 89	8 5 3	10 8 2	14 5 9	15 7 8	27 14 13	10 6 4	20 9 11	19 7 12	11 5 6	21 10 11	17 9 6	9 5 4	.....



Table 8.—CONTINUED.—*Births by counties, months and sex.*

Counties.	Births—males to 100 females.	Sex.	Year, 1896.	Months, 1896.											
				January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
				Unknown.											
Cheboygan.....	106	Total.....	377	33	23	34	40	30	28	44	29	34	26	27	29
		Males.....	193	15	14	21	22	16	13	15	18	19	13	13	14
		Females.....	184	18	9	13	18	14	15	29	11	15	13	14	15
Chippewa.....	119	Total.....	414	28	36	29	22	34	38	39	41	33	35	35	41
		Males.....	225	18	13	18	12	19	28	16	21	16	18	20	25
		Females.....	189	10	23	11	10	15	10	23	20	17	17	15	16
Clare.....	87	Total.....	155	4	6	8	21	18	12	14	16	24	11	14	7
		Males.....	72	1	—	5	8	6	9	8	15	4	5	3	—
		Females.....	83	3	6	3	13	12	3	6	9	9	7	9	4
Clinton.....	124	Total.....	379	20	29	28	27	29	37	38	37	42	35	30	27
		Males.....	208	10	19	15	11	16	17	27	22	21	20	14	16
		Females.....	168	9	8	13	16	13	20	11	15	21	15	16	11
		Unknown.....	3	1	2	—	—	—	—	—	—	—	—	—	—
Crawford.....	136	Total.....	59	4	3	6	6	3	6	4	7	4	4	8	3
		Males.....	34	4	2	5	3	2	5	2	5	1	1	3	1
		Females.....	25	—	1	1	3	1	1	2	2	3	3	5	2
Delta.....	110	Total.....	525	47	33	55	44	53	27	41	40	47	35	40	62
		Males.....	275	20	14	28	21	30	17	27	22	24	15	21	35
		Females.....	250	27	19	27	23	23	10	14	18	23	20	19	27
Dickinson.....	103	Total.....	600	37	38	48	59	50	51	53	49	54	47	42	72
		Males.....	304	22	23	24	29	22	22	23	24	29	23	23	41
		Females.....	296	15	15	24	30	28	29	30	25	25	25	19	31
Eaton.....	99	Total.....	429	34	31	42	37	33	35	34	37	32	37	48	29
		Males.....	213	16	15	22	15	18	17	21	12	17	17	26	17
		Females.....	215	18	16	20	22	15	18	13	25	15	20	22	11
		Unknown.....	1	—	—	—	—	—	—	—	—	—	—	—	1
Emmet.....	97	Total.....	199	12	14	15	20	18	22	23	20	14	13	9	19
		Males.....	98	6	6	7	11	8	13	12	13	4	3	5	10
		Females.....	101	6	8	8	9	10	9	11	7	10	10	4	9
Genesee.....	102	Total.....	561	33	35	51	35	42	50	61	58	58	44	44	50
		Males.....	283	17	19	28	25	23	20	24	25	27	27	24	24
		Females.....	277	16	16	23	10	19	30	37	33	31	17	19	26
		Unknown.....	1	—	—	—	—	—	—	—	—	—	—	1	—
Gladwin.....	120	Total.....	99	8	6	6	8	11	9	10	15	10	6	3	6
		Males.....	54	7	2	3	7	4	5	5	6	7	3	2	2
		Females.....	45	1	4	3	1	7	4	5	9	3	3	1	4
Gogebic.....	103	Total.....	651	61	46	59	55	58	45	42	58	51	53	65	58
		Males.....	331	28	25	27	26	31	29	21	30	29	27	29	29
		Females.....	320	33	21	32	29	27	16	21	28	22	26	36	29
Grand Traverse.....	136	Total.....	283	15	10	24	37	29	29	28	30	20	24	17	20
		Males.....	163	12	6	9	21	15	15	19	16	10	17	10	13
		Females.....	120	3	4	15	16	14	14	9	14	10	7	7	7
Gratiot.....	120	Total.....	435	29	19	35	28	33	39	43	43	39	48	35	43
		Males.....	237	14	11	12	15	19	23	30	28	20	31	15	18
		Females.....	198	15	8	23	13	14	16	13	15	19	17	20	25
Hillsdale.....	89	Total.....	359	34	21	35	28	18	25	30	41	30	28	31	38
		Males.....	168	17	8	17	14	8	10	14	22	9	14	17	18
		Females.....	189	17	13	18	13	10	15	16	19	20	14	14	20
		Unknown.....	2	—	—	—	1	—	—	—	—	1	—	—	—
Houghton.....	111	Total.....	1,857	131	143	171	156	161	137	142	148	160	163	154	191
		Males.....	976	72	72	92	80	84	79	76	78	90	80	72	101
		Females.....	881	59	71	79	76	77	58	66	70	70	83	82	90
Huron.....	103	Total.....	726	47	40	73	60	59	67	64	81	81	48	51	55
		Males.....	368	24	23	34	25	37	27	39	44	34	26	28	27
		Females.....	358	23	17	39	35	22	40	25	37	47	22	23	28



Table 8.—CONTINUED.—*Births by counties, months and sex.*

Counties.	Births—males to 100 females.	Sex.	Months, 1896.													
			Year, 1896.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Macomb.....	108	Total..... Males..... Females.....	634 329 305	43 22 21	45 19 26	37 20 17	52 26 26	59 27 32	40 24 16	47 30 17	68 31 37	55 30 25	51 24 26	69 43 26	68 32 36	.....
Manistee.....	102	Total..... Males..... Females.....	804 406 398	60 34 26	50 22 28	74 36 38	72 34 38	66 33 33	70 38 32	58 24 34	78 45 33	68 32 36	74 46 28	69 38 31	65 37 28	.....
Marquette.....	103	Total..... Males..... Females..... Unknown.....	1,287 653 632 2	79 41 38 2	120 63 57	102 54 47	121 63 57	117 59 58	104 54 50	116 66 60	115 55 60	102 38 64	98 46 52	110 57 53	103 47 56	.....
Mason.....	98	Total..... Males..... Females..... Unknown.....	475 234 240 1	28 11 17	23 13 10	43 22 21	50 25 25	29 12 17	35 14 21	37 16 21	46 23 23	54 32 32	42 22 20	43 24 19	41 26 14	4 4 1
Mecosta.....	115	Total..... Males..... Females..... Unknown.....	381 203 177 1	23 14 9	17 13 4	27 14 13	33 15 18	44 23 21	36 17 19	46 28 18	36 17 19	28 19 9	31 12 19	27 17 10	33 14 18	.....
Menominee.....	112	Total..... Males..... Females..... Unknown.....	863 455 406 2	58 28 30	73 40 33	76 43 33	77 35 42	84 45 39	70 40 30	71 38 33	78 38 40	69 31 31	61 30 30	60 31 30	86 50 35	.....
Midland.....	88	Total..... Males..... Females.....	267 125 142	22 13 9	18 12 6	28 16 12	18 10 8	36 15 21	28 7 21	12 2 10	28 16 12	24 10 14	26 11 15	14 6 8	13 7 6	.....
Missaukee.....	104	Total..... Males..... Females.....	198 101 97	8 6 2	18 10 8	16 10 6	20 11 9	15 7 8	20 5 15	21 9 12	13 5 8	23 15 8	19 7 12	15 8 7	10 8 2	.....
Monroe.....	106	Total..... Males..... Females..... Unknown.....	712 366 345 1	47 26 20	55 25 30	61 28 33	63 32 31	60 32 28	46 24 22	60 36 33	66 36 30	67 33 34	68 29 39	50 34 16	69 40 29	.....
Montcalm.....	96	Total..... Males..... Females..... Unknown.....	581 283 296 2	37 18 18	33 10 23	44 25 19	40 18 22	52 21 32	66 33 32	47 25 22	65 38 27	48 17 31	59 28 18	53 21 15	37 21 16	.....
Montmorency.....	103	Total..... Males..... Females.....	59 30 29	1 1 1	3 4 2	6 1 2	2 1 1	10 7 3	8 3 5	3 3 3	5 2 3	10 7 3	3 4 2	6 1 2	2 .....	.....
Muskegon.....	118	Total..... Males..... Females..... Unknown.....	717 385 325 7	52 23 29	52 30 22	57 31 25	65 32 33	56 27 28	42 27 15	74 41 33	55 29 22	71 38 33	63 25 38	56 30 25	72 50 22	2 2 .....
Newaygo.....	111	Total..... Males..... Females.....	297 156 141	19 13 8	22 8 14	25 10 15	18 5 13	24 18 6	30 16 14	27 17 10	30 15 13	27 14 13	21 13 8	28 15 15	26 14 12	.....
Oakland.....	108	Total..... Males..... Females.....	489 254 235	36 14 22	31 16 15	34 15 19	42 21 21	44 25 19	37 19 18	48 26 22	41 23 18	46 28 18	38 18 20	51 27 24	41 22 19	.....
Oceana.....	102	Total..... Males..... Females.....	362 183 179	18 11 7	29 14 15	17 5 12	29 13 16	35 21 14	35 20 15	40 19 16	44 23 17	33 17 16	39 15 24	25 14 11	27 11 16	.....
Ogemaw.....	123	Total..... Males..... Females.....	69 38 31	4 2 2	5 3 2	14 10 8	11 3 8	4 2 2	5 3 2	5 2 2	8 6 3	7 4 1	1 .....	1 2 .....	4 2 .....	.....
Ontonagon.....	88	Total..... Males..... Females..... Unknown.....	94 42 48 4	5 3 2 2	3 1 4	8 3 4	5 3 5	9 3 3	8 3 6	12 2 6	2 8 6	2 1 1	9 4 5	11 6 5	14 6 8	.....

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**Table 8.—CONCLUDED.—Births by counties, months and sex.**

Counties.	Births—males to 100 females.	Sex.	Year, 1896.	Months, 1896.												
				January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Osceola	94	Total .....	373	12	18	24	43	41	43	27	34	42	33	25	31	----
		Males .....	181	4	9	13	16	16	23	12	18	24	16	13	17	----
		Females .....	192	8	9	11	27	25	20	15	16	18	17	12	14	----
Oscoda	162	Total .....	34	1	12	2	5	3	5	12	3	2	----	4	5	----
		Males .....	21	---	12	2	2	1	1	12	3	2	----	2	4	----
		Females .....	13	1	---	---	3	2	4	---	---	---	----	2	1	----
Otsego	107	Total .....	112	6	3	12	6	9	12	7	11	8	8	12	18	----
		Males .....	58	3	---	5	2	8	7	1	7	4	4	7	10	----
		Females .....	54	3	3	7	4	1	5	6	4	4	4	5	8	----
Ottawa	116	Total .....	902	51	62	75	73	72	82	83	93	76	74	72	85	4
		Males .....	482	31	41	28	38	38	53	46	53	40	37	30	47	---
		Females .....	417	20	21	47	35	34	29	37	40	36	37	42	38	1
		Unknown .....	3	---	---	---	---	---	---	---	---	---	---	---	---	3
Presque Isle	84	Total .....	173	7	16	16	12	20	10	19	16	13	16	18	9	1
		Males .....	79	3	4	8	7	11	6	11	5	6	9	6	3	---
		Females .....	94	4	12	8	5	9	4	8	11	7	7	12	6	1
Roscommon	150	Total .....	20	3	---	1	4	2	---	1	3	3	3	---	---	---
		Males .....	12	1	---	1	3	1	---	1	2	1	2	---	---	---
		Females .....	8	2	---	---	1	1	---	---	1	2	1	---	---	---
Saginaw	108	Total .....	1,712	111	122	122	136	148	128	140	163	171	165	145	155	6
		Males .....	887	69	63	56	71	65	60	72	91	90	90	78	79	3
		Females .....	820	42	59	66	65	83	67	68	71	81	74	67	76	1
		Unknown .....	5	---	---	---	---	---	1	---	1	---	1	---	---	2
Sanilac	109	Total .....	759	42	46	66	72	52	64	75	84	80	63	59	56	---
		Males .....	395	25	23	29	39	29	37	38	42	42	33	27	31	---
		Females .....	364	17	23	37	33	23	27	37	42	38	30	32	25	---
Schoolcraft	102	Total .....	184	11	13	22	12	10	16	20	14	16	15	10	24	1
		Males .....	93	6	5	10	6	7	10	11	6	9	7	4	11	1
		Females .....	91	5	8	12	6	3	6	9	8	7	8	6	13	---
Shiawassee	97	Total .....	418	30	17	27	32	31	41	41	42	42	35	43	37	---
		Males .....	205	14	9	11	16	15	18	23	16	24	16	23	20	---
		Females .....	211	15	8	16	16	16	22	18	26	18	19	20	17	---
		Unknown .....	2	1	---	---	---	---	1	---	---	---	---	---	---	---
St. Clair	102	Total .....	925	64	49	75	65	66	80	81	107	82	102	78	76	---
		Males .....	466	30	23	40	34	34	43	43	57	37	61	37	37	---
		Females .....	456	34	26	34	31	32	47	38	49	45	40	41	39	---
		Unknown .....	3	---	---	1	---	---	---	1	---	---	1	---	---	---
St. Joseph	93	Total .....	358	30	15	21	21	23	33	39	34	35	26	88	43	---
		Males .....	172	14	4	10	11	10	18	18	12	14	15	22	24	---
		Females .....	185	16	11	11	10	13	14	21	22	21	11	16	19	---
		Unknown .....	1	---	---	---	---	---	1	---	---	---	---	---	---	---
Tuscola	101	Total .....	619	35	34	47	47	63	43	54	61	69	50	55	50	11
		Males .....	311	17	22	25	26	30	20	26	29	40	23	24	25	4
		Females .....	308	18	12	22	21	33	23	28	32	29	27	31	25	7
Van Buren	96	Total .....	449	16	27	37	44	45	41	33	44	36	45	34	47	---
		Males .....	220	11	17	17	20	22	20	18	21	18	19	14	23	---
		Females .....	228	5	10	20	24	23	21	15	23	18	25	20	24	---
		Unknown .....	1	---	---	---	---	---	---	---	---	---	1	---	---	---
Washtenaw	97	Total .....	572	44	41	37	51	48	46	45	67	59	44	40	50	---
		Males .....	281	18	19	19	22	24	23	26	31	30	25	15	29	---
		Females .....	291	26	22	18	29	24	23	19	36	29	19	25	21	---
Wayne	109	Total .....	8,119	688	583	711	630	624	607	630	730	705	718	702	790	1
		Males .....	4,239	375	306	357	325	320	321	336	385	363	367	367	416	1
		Females .....	3,880	313	277	354	305	304	286	294	345	342	351	335	374	---
Wexford	111	Total .....	301	21	20	14	29	35	23	23	24	33	27	31	30	1
		Males .....	158	7	9	8	19	18	11	10	13	21	17	9	16	---
		Females .....	142	14	11	6	10	17	12	13	11	12	10	12	13	1
		Unknown .....	1	---	---	---	---	---	---	---	---	---	---	---	---	1

## NOTE TO TABLE 8.—COLOR OF CHILDREN BORN IN MICHIGAN, 1896.

Out of 46,302 births, the total number reported for the year, 46,055 were white. Only 247 children were given as belonging to other colors or races, of whom 124 were black, 60 mulatto and 63 Indians (including 11 halfbreeds). The proportion of white children is so large, constituting 99.47 per cent of the total births, that any deductions in regard to comparative birth rates in the white and colored population of this State must, necessarily, be of very slight importance and of very doubtful value. Below are given, with specification of sex, the number of births of colors other than white in each county of the State:

**BLACK BIRTHS.**—Total for State, 124; 58 males, 66 females. By counties—Wayne, 34 males, 26 females; Washtenaw, 2 males, 6 females; Jackson, 3 males, 3 females; Ingham, 5 males, 1 female; Oakland, 2 males, 3 females; Cass, Kent, Van Buren, each 1 male, 3 females; Calhoun, 3 females; Marquette, 1 male, 2 females; Allegan, Branch, each 2 females; Bay, Kalamazoo, Lenawee, Mecosta, each 1 male, 1 female; Genesee, Ionia, Leelanau, Oceana, each 1 male; Antrim, Gratiot, Isabella, Macomb, Midland, each 1 female.

**MULATTO BIRTHS.**—Total for State, 60; 29 males, 31 females. By counties—Cass, 12 males, 10 females; Wayne, 5 males, 3 females; Washtenaw, 2 males, 2 females; Isabella, Kent, each 1 male, 2 females; Benzie, 2 males, 1 female; Eaton, 3 females; Cheboygan, 2 males; Kalamazoo, 1 male, 1 female; Allegan, Berrien, Mason, each 1 male; Barry, Bay, Chippewa, Ionia, Lenawee, Presque Isle, Van Buren, each 1 female.

**INDIAN BIRTHS.**—Total for State, 63; 31 males, 32 females. There are included in this number 5 males and 6 females of mingled white and Indian parentage. By counties—(a) Indian: Baraga, 7 males, 8 females; Leelanau, 4 males, 4 females; Calhoun, Isabella, each 2 males, 2 females; Chippewa, 2 males, 1 female; Saginaw, 3 males; Allegan, 2 males; Arenac, Emmet, Missaukee, each 2 females; Oceana, 1 male, 1 female; Mackinac, Mason, St. Clair, each 1 male; Antrim, Van Buren, each 1 female. (b) Halfbreeds: Mackinac, 2 males, 6 females; Baraga, 2 males; Marquette, 1 male.

**Table 9.**—*Showing, by sex, the parent nativity of children born in Michigan, during the year 1896, according to the returns.*

Nativity of parents of children born, 1896.	Total births, 1896.							
	Number.				Per cent of total.			
	Total.	Males.	Fe-males.	Un-known.	Total.	Males.	Fe-males.	Un-known.
All nativities.....	46,302	23,869	22,360	73	100.0	100.0	100.0	100.0
Both parents native-born .....	19,892	10,130	9,730	32	43.0	42.4	43.5	43.8
Both parents foreign-born.....	16,420	8,500	7,905	15	35.5	35.6	35.4	20.5
Foreign father and native mother....	5,455	2,897	2,551	7	11.8	12.1	11.4	9.6
Foreign mother and native father....	3,134	1,624	1,508	2	6.8	6.8	6.7	2.7
Unknown mother, father native .....	116	57	58	1	.3	.2	.3	1.4
Unknown mother, father foreign.....	112	63	49	-----	.2	.3	.2	-----
Unknown father, mother native .....	250	123	123	4	.5	.5	.6	5.5
Unknown father, mother foreign.....	104	68	36	-----	.2	.3	.2	-----
Both unknown .....	819	407	400	12	1.8	1.7	1.8	16.4
One or both native*.....	28,847	14,831	13,970	46	62.3	62.1	62.5	63.0
One or both foreign*.....	25,225	13,152	12,049	24	54.5	55.1	53.9	32.9

\* Including cases where nativity of either parent is unknown.

**Table 10.**—*Parent nativity of children born in Michigan for each of the years 1887-96, inclusive; with average for the ten-year period.*

Years.	Nativity of parents of children.—Per cent of total.												
	Both native-born.	Both foreign-born.	Foreign father and native mother.	Foreign mother and native father.	One or both unknown.	Father—			Mother—			One or both parents native-born.*	One or both parents foreign-born.*
						Native.	Foreign.	Unknown.	Native.	Foreign.	Unknown.		
1887 .....	43.0	36.9	10.9	6.5	2.6	49.8	48.1	2.1	54.4	43.6	1.9	61.2	50.4
1888 .....	44.0	36.3	10.5	6.1	3.1	50.3	47.0	2.7	55.0	42.6	2.5	61.2	53.3
1889 .....	41.8	39.0	10.7	6.0	2.6	48.1	49.9	2.1	52.9	45.1	2.0	59.1	56.0
1890 .....	41.8	38.4	10.8	6.0	3.0	48.3	49.5	2.2	53.1	44.6	2.3	59.6	55.8
1891 .....	40.2	39.8	10.8	6.1	3.1	46.9	51.0	2.1	51.3	46.2	2.5	58.0	57.4
1892 .....	39.7	39.7	10.9	6.3	3.3	46.7	51.0	2.3	51.3	46.2	2.5	58.2	57.5
1893 .....	41.1	38.5	11.0	6.6	2.9	48.0	50.0	2.1	52.6	45.3	2.1	59.5	56.7
1894 .....	43.0	35.6	11.4	6.8	3.3	50.4	47.9	1.7	54.9	42.5	2.6	62.3	54.8
1895 .....	43.4	35.5	11.3	6.8	3.0	50.7	47.0	2.2	55.3	42.5	2.2	62.6	54.1
1896 .....	43.0	35.5	11.8	6.8	3.0	50.0	47.5	2.5	55.3	42.5	2.3	62.3	54.5
Average, 1887-96..	42.1	37.5	11.0	6.4	3.0	48.9	48.9	2.2	53.6	44.1	2.3	60.4	55.1

\* Including cases where nativity of either parent is unknown.

**Table 11.**—*Parentage of children, by nativity, born in Michigan during the year 1896, compared with averages for five quinquennial periods.*

Years and periods averaged.	Nativity of parents.—Per cent of total.				
	Both native-born.	Both foreign-born.	Foreign father and native mother.	Native father and foreign mother.	One or both unknown.
Average, 1871-75.....	44.8	34.3	9.5	5.2	6.2
Average, 1876-80.....	46.0	34.1	11.0	5.7	3.1
Average, 1881-85.....	43.7	35.5	11.5	6.2	2.9
Average, 1886-90.....	42.7	37.6	10.7	6.2	2.8
Average, 1891-95 .....	41.5	37.8	11.1	6.5	3.1
Year 1895.....	43.4	35.5	11.3	6.8	3.0
Year 1896.....	43.0	35.5	11.8	6.8	3.0

**Table 12.**—*Exhibiting for the State and counties of Michigan, by sex, the parent nativity of children returned for the year 1896. (Stillbirths included.)*

State and counties.	Sex of children born, 1896.	Children born, 1896.	Nativity of parents of children born in 1896.								Both unknown.
			Both native-born.	Both foreign-born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown.		Father unknown.		
							Father—		Mother—		
							Native.	Foreign.	Native.	Foreign.	
State.....	Total..... Males..... Females..... Unknown.....	46,302 23,869 22,360 73	19,892 10,130 9,730 32	16,420 8,500 7,905 15	5,455 2,897 2,551 7	3,134 1,624 1,508 2	116 57 58 1	112 63 49 -----	250 123 123 4	104 68 36 -----	819 407 400 12
Alcona.....	Total..... Males..... Females.....	95 45 50	24 16 8	42 19 23	18 6 12	11 4 7	----- ----- -----	----- ----- -----	----- ----- -----	----- ----- -----	----- ----- -----
Alger.....	Total..... Males..... Females.....	64 27 37	16 6 10	19 11 8	5 1 4	1 1 -----	----- ----- -----	5 ----- 4	1 ----- 1	----- ----- -----	17 7 10
Allegan.....	Total..... Males..... Females..... Unknown.....	717 392 323 2	512 281 230 1	68 34 34 -----	80 49 31 -----	35 19 15 1	1 ----- 1 -----	----- ----- ----- -----	8 2 6 -----	----- ----- ----- -----	13 7 6 -----
Alpena.....	Total..... Males..... Females.....	452 249 203	57 38 24	283 156 127	74 42 32	36 17 19	----- ----- -----	1 1 -----	----- ----- -----	----- ----- -----	1 ----- 1
Antrim.....	Total..... Males..... Females.....	243 128 115	122 65 57	55 28 27	31 17 14	33 17 16	----- ----- -----	----- ----- -----	2 1 1	----- ----- -----	----- ----- -----
Arenac.....	Total..... Males..... Females.....	192 97 95	72 37 35	62 31 31	39 19 20	18 10 8	1 ----- 1	----- ----- -----	----- ----- -----	----- ----- -----	----- ----- -----
Baraga.....	Total..... Males..... Females.....	96 49 47	32 18 14	42 22 20	16 8 8	1 ----- 1	----- ----- -----	----- ----- -----	5 1 4	----- ----- -----	----- ----- -----
Barry.....	Total..... Males..... Females.....	377 213 164	335 190 145	15 10 5	14 5 9	8 5 3	----- ----- -----	----- ----- -----	2 2 -----	1 1 -----	2 ----- 2
Bay.....	Total..... Males..... Females..... Unknown.....	1,404 721 682 1	362 184 177 1	617 306 311 -----	251 140 111 -----	127 62 65 -----	1 ----- 1 -----	4 4 -----	9 8 1	3 2 1	30 15 15 -----
Benzie.....	Total..... Males..... Females.....	230 110 120	137 61 76	42 21 21	27 16 11	19 10 9	----- ----- -----	----- ----- -----	4 1 3	----- ----- -----	1 1 -----
Berrien.....	Total..... Males..... Females..... Unknown.....	695 343 341 11	456 223 226 7	132 71 60 1	48 19 26 3	27 14 13 -----	5 3 2 -----	----- ----- ----- -----	8 4 4 -----	----- ----- ----- -----	19 9 10 -----
Branch.....	Total..... Males..... Females.....	355 153 202	298 131 167	15 2 13	21 13 8	11 3 8	4 1 3	----- ----- -----	4 3 1	----- ----- -----	2 ----- 2
Calhoun.....	Total..... Males..... Females..... Unknown.....	638 317 317 4	500 241 256 3	62 35 26 1	40 23 17 -----	26 11 15 -----	2 2 -----	----- ----- ----- -----	4 2 2 -----	----- ----- ----- -----	4 3 1 -----
Cass.....	Total..... Males..... Females.....	312 156 156	275 133 142	9 8 1	19 9 10	3 3 -----	2 1 1	----- ----- -----	1 1 -----	----- ----- -----	3 1 2

Table 12.—CONTINUED.—*Births by counties, parent nativity and sex.*

Counties.	Sex of children born, 1896.	Children born, 1896.	Nativity of parents of children born in 1896.								Both unknown.	
			Both native-born.	Both foreign-born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown.		Father unknown.			
							Father—		Mother—			
							Native.	Foreign.	Native.	Foreign.		
Charlevoix.....	{ Total..... Males..... Females.....	181 92 89	93 41 52	41 26 15	25 13 12	21 11 10						1 1 1
Cheboygan.....	{ Total..... Males..... Females.....	377 193 184	99 51 48	161 82 79	62 34 28	53 25 28			2 1 1			
Chippewa.....	{ Total..... Males..... Females.....	414 225 189	54 36 18	276 147 129	44 23 21	33 17 16	1 1 1	1 1 1				5 1 4
Clare.....	{ Total..... Males..... Females.....	155 72 83	77 34 43	30 19 11	25 8 17	16 7 9	1 1 1	1 1 1	1 1 1	2 2 1		2 1 1
Clinton.....	{ Total..... Males..... Females..... Unknown.....	379 208 168 3	306 161 142 3	20 13 7	22 15 7	18 12 6	3 2 1	1 1 1	2 1 1	2 2 1		5 2 3
Crawford.....	{ Total..... Males..... Females.....	59 34 25	21 15 6	16 7 9	14 7 7	8 5 3						
Delta.....	{ Total..... Males..... Females.....	525 275 250	101 45 56	320 174 146	69 36 33	28 15 13					5 4 1	2 1 1
Dickinson.....	{ Total..... Males..... Females.....	600 304 296	50 21 29	495 255 240	38 18 20	13 7 6		1 1 1	1 1 1	2 2 1		
Eaton.....	{ Total..... Males..... Females..... Unknown.....	429 213 215 1	379 193 185 1	4 2 2	25 7 18	13 6 7			4 2 2	4 3 1		
Emmet.....	{ Total..... Males..... Females.....	199 98 101	120 55 65	24 15 9	30 18 12	14 4 10	2 1 2	2 2 1	2 1 1			5 3 2
Genesee.....	{ Total..... Males..... Females..... Unknown.....	561 283 277 1	403 189 214	32 19 13	68 37 31	43 29 14	2 1 1		5 4 1			8 4 3 1
Gladwin.....	{ Total..... Males..... Females.....	99 54 45	32 16 16	31 15 16	24 15 9	11 8 3			1 1 1			
Gogebic.....	{ Total..... Males..... Females.....	651 331 320	59 30 29	526 263 263	38 19 19	18 10 8	1 1 1	1 1 1	1 1 1	3 2 1		4 4 1
G'd Traverse.....	{ Total..... Males..... Females.....	283 163 120	193 112 81	45 26 19	24 14 10	18 9 9			1 1 1			2 1 1
Gratiot.....	{ Total..... Males..... Females.....	435 237 198	350 194 156	17 13 4	36 16 20	23 10 13	5 2 3		2 1 1	1 1 1		1 1 1
Hillsdale.....	{ Total..... Males..... Females..... Unknown.....	359 168 189 2	332 159 171 2	4 1 3	6 4 2	7 2 5	2 1 1					8 1 7



Table 12.—CONTINUED.—*Births by counties, parent nativity and sex.*

Counties.	Sex of children born, 1896.	Children born 1896.	Nativity of parents of children born in 1896.								Both unknown.
			Both native-born.	Both foreign-born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown.		Father unknown.		
							Father—		Mother—		
							Native.	Foreign.	Native.	Foreign.	
Houghton.....	Total.....	1,857	275	1,251	256	67	-----	1	3	-----	4
	Males.....	976	141	662	135	36	-----	-----	1	-----	1
	Females.....	881	134	589	121	31	-----	1	2	-----	3
Huron.....	Total.....	726	142	326	165	87	-----	-----	3	2	1
	Males.....	368	66	161	91	44	-----	-----	3	2	1
	Females.....	358	76	165	74	43	-----	-----	-----	-----	-----
Ingham.....	Total.....	585	388	90	46	26	4	2	5	2	22
	Males.....	315	210	45	29	16	-----	2	3	1	9
	Females.....	268	177	45	17	10	4	-----	2	1	12
	Unknown.....	2	1	-----	-----	-----	-----	-----	-----	-----	1
Ionia.....	Total.....	506	388	29	53	29	-----	-----	6	-----	1
	Males.....	253	203	15	21	13	-----	-----	1	-----	-----
	Females.....	253	185	14	32	16	-----	-----	5	-----	1
Iosco.....	Total.....	249	50	118	49	25	-----	2	2	2	1
	Males.....	149	34	66	29	14	-----	2	1	2	1
	Females.....	100	16	52	20	11	-----	-----	1	-----	-----
Iron.....	Total.....	191	27	122	29	4	-----	4	-----	1	4
	Males.....	102	9	66	18	3	-----	-----	1	-----	4
	Females.....	89	18	56	11	1	-----	3	-----	-----	-----
Isabella.....	Total.....	462	284	85	46	42	-----	-----	2	-----	3
	Males.....	222	139	42	23	17	-----	-----	1	-----	-----
	Females.....	240	145	43	23	25	-----	-----	1	-----	3
Jackson.....	Total.....	669	437	108	58	42	3	1	1	-----	19
	Males.....	352	225	61	35	23	-----	1	-----	-----	7
	Females.....	317	212	47	23	19	3	-----	1	-----	12
Kalamazoo.....	Total.....	591	344	155	47	29	2	-----	6	1	7
	Males.....	310	174	77	30	19	2	-----	4	1	3
	Females.....	251	170	78	17	10	-----	-----	2	-----	4
Kalkaska.....	Total.....	99	68	8	13	9	-----	-----	-----	-----	1
	Males.....	62	43	4	10	5	-----	-----	-----	-----	-----
	Females.....	36	25	4	2	4	-----	-----	-----	-----	1
	Unknown.....	1	-----	-----	1	-----	-----	-----	-----	-----	-----
Kent.....	Total.....	2,491	957	1,027	272	149	5	8	21	11	41
	Males.....	1,289	488	520	152	81	3	7	9	6	23
	Females.....	1,198	467	507	120	68	2	1	12	5	16
	Unknown.....	4	2	-----	-----	-----	-----	-----	-----	-----	2
Keweenaw.....	Total.....	77	7	53	12	4	-----	-----	1	-----	-----
	Males.....	48	4	34	9	1	-----	-----	-----	-----	-----
	Females.....	29	3	19	3	3	-----	-----	1	-----	-----
Lake.....	Total.....	118	55	20	16	5	1	-----	-----	-----	21
	Males.....	52	24	10	7	1	1	-----	-----	-----	9
	Females.....	66	31	10	9	4	-----	-----	-----	-----	12
Lapeer.....	Total.....	469	250	73	85	49	1	-----	3	-----	8
	Males.....	228	120	31	43	28	1	-----	1	-----	4
	Females.....	241	130	42	42	21	-----	-----	2	-----	4
Leelanau.....	Total.....	271	125	90	38	18	-----	-----	-----	-----	-----
	Males.....	152	77	48	19	8	-----	-----	-----	-----	-----
	Females.....	119	48	42	19	10	-----	-----	-----	-----	-----
Lenawee.....	Total.....	551	452	38	31	22	1	-----	6	-----	1
	Males.....	297	246	21	16	10	-----	-----	4	-----	-----
	Females.....	252	205	17	15	12	-----	-----	2	-----	1
	Unknown.....	2	1	-----	-----	-----	1	-----	-----	-----	-----

Table 12.—CONTINUED.—*Births by counties, parent nativity and sex.*

Counties.	Sex of children born, 1896.	Children born 1896.	Nativity of parents of children born in 1896.								Both unknown.
			Both native-born.	Both foreign-born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown.		Father unknown.		
							Father—		Mother—		
							Native.	Foreign.	Native.	Foreign.	
Livingston	Total	264	207	15	27	14	1				
	Males	137	113	7	10	7					
	Females	127	94	8	17	7	1				
Luce	Total	56	7	35	7	6				1	
	Males	26	2	17	6	1					
	Females	30	5	18	1	5				1	
Mackinac	Total	175	75	66	18	12			1		3
	Males	78	29	38	6	3					2
	Females	94	44	28	11	9			1		1
	Unknown	3	2		1						
Macomb	Total	634	371	112	94	55		1	1		
	Males	329	196	57	48	27		1			
	Females	305	175	55	46	28			1		
Manistee	Total	804	190	507	63	40		1			3
	Males	406	107	239	33	25					2
	Females	398	83	268	30	15		1			1
Marquette	Total	1,287	171	864	176	59		2	5		10
	Males	653	93	427	96	27		1	3		6
	Females	632	78	435	80	32		1	2		4
	Unknown	2		2							
Mason	Total	475	170	202	73	25			2		3
	Males	234	85	93	40	15			1		
	Females	240	85	109	33	10			1		2
	Unknown	1									1
Mecosta	Total	381	221	76	57	24			2	1	
	Males	203	106	41	40	14			2		
	Females	177	114	35	17	10				1	
	Unknown	1	1								
Menominee	Total	863	176	497	129	44	1	1	3	2	10
	Males	455	99	252	69	24	1		2	2	6
	Females	406	77	244	60	20		1	1		3
	Unknown	2		1							1
Midland	Total	267	135	61	50	21					
	Males	125	53	37	22	13					
	Females	142	82	24	28	8					
Missaukee	Total	198	55	85	42	15			1		
	Males	101	34	45	18	4					
	Females	97	21	40	24	11			1		
Monroe	Total	712	585	46	50	26	1		2		2
	Males	366	298	23	27	15	1		1		1
	Females	345	287	23	23	11			1		
	Unknown	1									1
Montcalm	Total	581	380	97	58	33			6		7
	Males	283	185	49	28	16			2		3
	Females	296	195	46	30	17			4		4
	Unknown	2		2							
Montmorency	Total	59	15	27	9	5		1			2
	Males	30	6	13	7	3		1			
	Females	29	9	14	2	2					2
Muskegon	Total	717	240	307	95	61	1		3		10
	Males	385	143	161	41	32			1		7
	Females	325	96	143	54	28	1		2		1
	Unknown	7	1	3		1					2

Table 12.—CONTINUED.—*Births by counties, parent nativity and sex.*

Counties.	Sex of children born, 1896.	Children born, 1896.	Nativity of parents of children born in 1896.								
			Both native-born.	Both foreign-born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown.		Father unknown.		Both unknown.
							Father—		Mother—		
							Native.	Foreign.	Native.	Foreign.	
Newaygo	Total .....	297	185	48	36	22			3		3
	Males .....	156	103	23	14	13					3
	Females .....	141	82	25	22	9			3		
Oakland	Total .....	489	339	48	43	49	3	1	4	2	
	Males .....	254	173	23	24	27	3	1	1	2	
	Females .....	235	166	25	19	22			3		
Oceana	Total .....	362	243	50	28	31	1		5	1	3
	Males .....	183	125	25	10	18	1		3		1
	Females .....	179	118	25	18	13			2	1	2
Ogemaw	Total .....	69	25	28	10	6					
	Males .....	38	14	15	6	3					
	Females .....	31	11	13	4	3					
Ontonagon	Total .....	94	33	21	9		7	9	3	1	11
	Males .....	42	14	12	3		4	4	1		4
	Females .....	48	19	7	5		3	5	2	1	6
	Unknown .....	4		2	1						1
Osceola	Total .....	373	185	85	63	35	1		3	1	
	Males .....	181	88	46	31	15			1		
	Females .....	192	97	39	32	20	1		2	1	
Oscoda	Total .....	34	21		7	4		1	1		
	Males .....	21	12		3	4		1	1		
	Females .....	13	9		4						
Otsego	Total .....	112	34	51	17	9			1		
	Males .....	58	19	25	10	4					
	Females .....	54	15	26	7	5			1		
Ottawa	Total .....	902	416	287	104	83	3	1	5		3
	Males .....	482	216	160	59	41	1	1	3		1
	Females .....	417	197	127	45	42	2		2		2
	Unknown .....	3	3								
Presque Isle	Total .....	173	33	105	22	12					1
	Males .....	79	14	46	15	4					
	Females .....	94	19	59	7	8					1
Roscommon	Total .....	20	11	4	2	3					
	Males .....	12	6	4	1	1					
	Females .....	8	5		1	2					
Saginaw	Total .....	1,712	669	506	284	161	5	3	13	3	68
	Males .....	887	344	265	152	83	2	1	6	1	33
	Females .....	820	324	241	131	78	3	2	5	2	34
	Unknown .....	5	1		1				2		1
Sanilac	Total .....	759	183	304	164	106	1			1	
	Males .....	395	96	161	80	58					
	Females .....	364	87	143	84	48	1			1	
Schoolcraft	Total .....	184	37	86	35	12	1	10	1	1	1
	Males .....	93	19	40	23	6		3	1	1	
	Females .....	91	18	46	12	6	1	7			1
Shiawassee	Total .....	418	304	31	49	26		1	6	1	
	Males .....	205	154	13	24	11			2	1	
	Females .....	211	150	18	25	15		1	2		
	Unknown .....	2							2		
St. Clair	Total .....	925	441	199	166	98	17	3		1	
	Males .....	466	212	106	82	52	11	3			
	Females .....	456	228	91	84	46	6			1	
	Unknown .....	3	1	2							

Table 12.—CONCLUDED.—*Births by counties, parent nativity and sex.*

Counties.	Sex of children born, 1896.	Children born, 1896.	Nativity of parents of children born in 1896.								
			Both native born.	Both foreign-born.	Foreign father and native mother.	Foreign mother and native father.	Mother unknown.		Father unknown.		Both unknown.
							Father—		Mother—		
							Native.	Foreign.	Native.	Foreign.	
St. Joseph	Total .....	358	283	20	25	10	1	-----	12	2	5
	Males .....	172	130	11	15	6	-----	-----	6	1	3
	Females .....	185	153	9	10	4	1	-----	6	1	1
	Unknown .....	1	-----	-----	-----	-----	-----	-----	-----	-----	1
Tuscola	Total .....	619	320	105	112	75	-----	-----	1	1	5
	Males .....	311	162	49	61	37	-----	-----	-----	-----	2
	Females .....	308	158	56	51	38	-----	-----	1	1	3
Van Buren	Total .....	449	395	18	12	9	3	-----	4	-----	8
	Males .....	229	193	11	4	3	2	-----	2	-----	5
	Females .....	228	202	6	8	6	1	-----	2	-----	3
	Unknown .....	1	-----	1	-----	-----	-----	-----	-----	-----	-----
Washtenaw	Total .....	572	369	93	54	40	6	1	5	1	3
	Males .....	281	184	36	29	22	4	-----	3	1	2
	Females .....	291	185	57	25	18	2	1	2	-----	1
Wayne	Total .....	8,119	2,106	4,147	777	583	12	40	25	42	387
	Males .....	4,239	1,061	2,184	421	304	5	22	14	27	201
	Females .....	3,880	1,045	1,963	356	279	7	18	11	15	186
Wexford	Total .....	301	146	89	39	20	1	1	3	-----	2
	Males .....	158	68	52	21	14	-----	1	1	-----	1
	Females .....	142	77	37	18	6	1	-----	2	-----	1

## PARENT NATIVITY OF CHILDREN BORN.

The four tables preceding relate to the important subject of the parent nativity of children born in this State during the year 1896, together with such comparisons with the results of previous years as are necessary to a clear understanding of the subject.

From Table 9 it appears that 43.0 per cent of all births were to families consisting of native born fathers and mothers, while in 35.5 per cent of all births, father and mother were both foreign. How these ratios compare with the results of previous years can be seen in Table 10.

By means of quinquennial averages, Table 11 shows the changes in the proportions of parents, by nativity, since 1871. This table may well be compared with the table of similar form in Part III (Table 31), showing the changes in the nativity of persons married for the same periods of time, where analogous changes may be seen to have taken place, although the ratios of native marriages are much larger absolutely. Marriages of foreign born persons consequently appear to be more prolific, since a smaller percentage of marriages produces an equal percentage of children. Additional information on this subject is presented in Tables 13-15, in which the nationalities of parents of children born in Michigan during the year 1896 are stated. Reference may also be made to the comparative study of the fecundity of native and foreign marriages in Michigan given in the Registration Report for 1894, beginning on page 113.

Table 12 exhibits for each county the nativity of the parents of children born in 1896. For the State, the number of parents both native born is in excess of those of foreign birth, but in many counties, especially those of the Upper Peninsula and

those containing large cities, the parents of foreign birth greatly outnumber the native born parents. In the southern part of the State and among the older settled counties, where the birth rate is small, the reverse is generally true, and the foreign-born parents are in the minority.

PARENT NATIONALITY OF CHILDREN BORN IN MICHIGAN, 1896.

By its cross-arrangement Table 13 shows the composition of the families returning births for the year 1896 with respect to the country of birth of father and mother. The column on the left indicates the birthplace of the fathers returned. Taking, for instance, Germany, and reading the horizontal column to the right, we find that 1,243 children were born in Michigan in 1896 whose fathers were born in Germany

Table 13.—*Nationality of parents*

Fathers born in—	Mothers									
	United States.	Canada.	England and Wales.	Scotland.	Ireland.	Germany.	Austria.	Holland.	Belgium.	Switzerland.
United States.....	19,892	1,743	213	33	117	637	9	147	5	11
Canada.....	2,578	3,256	100	19	56	97	2	2	2	-----
England and Wales....	496	153	548	7	15	22	-----	1	1	-----
Scotland.....	81	76	13	62	11	5	1	-----	-----	-----
Ireland.....	253	79	16	5	235	11	-----	-----	-----	-----
Germany.....	1,243	108	3	4	7	4,852	12	12	2	12
Austria.....	27	3	2	-----	-----	24	270	-----	-----	-----
Holland.....	254	2	1	-----	-----	16	-----	1,120	-----	-----
Belgium.....	14	6	1	-----	-----	4	-----	1	88	-----
Switzerland.....	21	8	1	-----	-----	11	-----	-----	-----	37
Norway.....	31	3	1	-----	-----	5	-----	-----	-----	-----
Sweden.....	109	14	1	-----	1	13	1	-----	-----	-----
Denmark.....	44	3	-----	-----	-----	12	-----	-----	-----	1
Russia.....	15	2	1	-----	-----	32	2	-----	-----	-----
Finland.....	11	-----	-----	-----	-----	1	-----	-----	-----	-----
Poland.....	59	3	-----	-----	-----	19	-----	-----	-----	-----
Hungary.....	-----	-----	2	-----	-----	-----	-----	-----	-----	-----
Bohemia.....	13	1	-----	-----	-----	1	1	-----	1	-----
France.....	43	12	-----	-----	-----	9	-----	-----	-----	1
Italy.....	15	4	5	-----	-----	6	2	-----	-----	3
All others.....	148	21	1	-----	-----	5	-----	2	-----	-----
Unknown.....	250	51	7	1	4	17	-----	4	-----	2
Total mothers.....	25,597	5,548	916	131	446	5,799	300	1,289	99	67
Per cent.....	55.3	12.0	2.0	.3	1.0	12.5	.6	2.8	.2	.1

and whose mothers were born in the United States; 108 had German fathers and Canadian mothers; 3, 4 and 7, respectively, had German fathers and English (or Welsh), Scotch and Irish mothers; 4,852 had both parents of German birth, etc., etc. Passing to the right of the table, we find that the total number of children born to German fathers during the year was 6,323 which number was 13.7 per cent of the total number of fathers. In a similar way, reading down the vertical columns, the number of mothers of any given nationality can be ascertained, together with the proportion of fathers of each nationality with whom they are united.

A table of precisely similar form (Table 34) has been constructed for marriages. It is evident that comparison of these two tables will, with certain precautions afford a measure of the fecundity of marriages of different nationalities. Such comparison may be made, so far as the data at hand will permit, in Table 14.

*of children born in Michigan, 1896.*

born in—												Total fathers.	Per cent.
Nor- way.	Swe- den.	Den- mark.	Rus- sia.	Fin- land.	Po- land.	Hun- gary.	Bohe- mia.	France.	Italy.	All others.	Unk.		
27	50	23	5	2	15	1	4	16	1	75	116	23,142	50.0
6	10	2		5	5		2	6		15	37	6,200	13.4
4	9	1								1	12	1,270	2.7
	1		1								2	253	.5
3											9	611	1.3
2	8	5	9		6		2	3	1	4	28	6,323	13.7
							2	1			1	330	.7
1					1						1	1,306	3.0
												114	.2
					1			1				80	.2
243	42	2		8							1	336	.7
65	1,144	9		18							12	1,387	3.0
6	21	175									1	263	.6
	1	1	160		2	1				1		218	.5
14	5	2		885							1	919	2.0
			1		1,019		1		1	1	3	1,107	2.4
						9						11	
							55					72	.1
1			1					16				83	.2
									290	1		326	.7
										507	4	688	1.5
1	2		2		2				1	10	819	1,173	2.5
373	1,293	220	179	918	1,051	11	66	43	294	615	1,047	46,302	
.8	2.8	.5	.4	2.0	2.3		.1	.1	.6	1.3	2.3		100.0

**Table 14.**—*Comparison of the number of children born in Michigan in 1896 of parents of given nationality with the number of marriages registered for the year 1896 of the corresponding nationality; also ratios for 1894-95.*

Birthplaces of bridegrooms and fathers.	Birthplaces of brides and mothers.	Number of marriages, 1896.	Number of births, 1896.	Children per marriage, 1896.	Children per marriage, 1895.	Children per marriage, 1894.
United States.....	United States.....	11,551	19,892	1.7	1.8	1.8
	Canada.....	848	1,743	2.1	2.0	1.9
	England and Wales.....	120	213	1.8	1.8	1.7
	Ireland.....	41	117	2.9	2.5	2.6
	Germany.....	323	637	2.0	2.4	2.3
	Holland.....	68	147	2.2	2.2	2.3
	All countries.....	13,388	23,142	1.7	1.8	1.8
Canada.....	United States.....	1,170	2,578	2.2	2.0	1.9
	Canada.....	764	3,256	4.3	4.5	4.9
	England and Wales.....	29	100	3.4	2.6	3.1
	Ireland.....	15	56	3.7	4.3	3.7
	Germany.....	23	97	4.2	4.8	2.3
	All countries.....	2,086	6,200	3.0	2.9	2.9
England and Wales.....	United States.....	262	496	1.9	1.6	1.9
	Canada.....	61	153	2.5	2.4	2.6
	England and Wales.....	83	548	6.6	5.8	4.5
	All countries.....	440	1,270	2.9	2.6	2.7
Scotland.....	United States.....	46	81	1.8	1.5	2.8
	Canada.....	18	76	4.2	3.1	5.3
	All countries.....	78	253	3.2	2.6	4.4
Ireland.....	United States.....	76	253	3.2	2.9	2.9
	Canada.....	19	79	4.2	3.5	4.5
	Ireland.....	25	235	9.4	6.6	5.1
	All countries.....	134	611	4.6	3.9	3.6
Germany.....	United States.....	467	1,243	2.7	2.5	2.7
	Canada.....	39	108	2.8	3.6	2.5
	Germany.....	713	4,852	6.8	7.0	6.7
	All countries.....	1,274	6,323	5.0	5.0	5.0
Austria.....	Austria.....	77	270	3.5	4.4	6.0
	All countries.....	99	330	3.3	3.7	4.0
Holland.....	United States.....	99	254	2.6	1.6	2.1
	Holland.....	188	1,120	6.0	5.0	5.4
	All countries.....	306	1,396	4.6	3.6	4.1
Norway.....	Norway.....	44	243	5.5	7.2	5.3
	All countries.....	90	336	3.7	4.8	3.3
Sweden.....	Sweden.....	209	1,144	5.5	5.9	4.3
	All countries.....	318	1,387	4.4	4.8	3.6
Denmark.....	Denmark.....	29	175	6.0	8.4	5.2
	All countries.....	73	263	3.6	4.8	3.3
Russia (Finland).....	Russia (Finland).....	250	1,045	4.2	4.6	3.6
	All countries.....	297	1,137	3.8	4.2	3.2
Poland.....	Poland.....	59	1,019	17.3	19.6	22.2
	All countries.....	96	1,107	11.5	15.0	15.9
Italy.....	Italy.....	43	290	6.7	10.3	8.8
	All countries.....	60	326	5.4	7.8	6.9
All countries.....	United States.....	13,913	25,597	1.8	1.8	1.8
	Canada.....	1,774	5,548	3.1	3.2	3.2
	England and Wales.....	258	916	3.6	3.3	3.1
	Scotland.....	51	131	2.6	3.9	3.9
	Ireland.....	91	446	4.9	4.3	3.6
	Germany.....	1,148	5,799	5.1	5.3	5.0
	Austria.....	88	300	3.4	3.9	5.4
	Holland.....	263	1,289	4.9	4.2	4.5
	Norway.....	79	373	4.7	4.8	3.9
	Sweden.....	265	1,293	4.9	5.0	3.9
	Denmark.....	50	220	4.4	5.3	3.7
	Russia (Finland).....	291	1,097	3.8	4.2	3.3
	Poland.....	75	1,051	14.0	16.0	19.4
	Italy.....	46	294	6.4	9.6	8.5
	All countries.....	18,897	46,302	2.5	2.4	2.4

## FECUNDITY OF MARRIAGES BY NATIONALITY, 1896.

In Table 14, marriages of specified nationalities, as stated in Table 34, Part III, are compared with births of children to parents of the corresponding nationalities according to Table 13. No corrections are practicable for varying age distributions of the several nationalities or for marriages contracted prior to arrival in this State; the data should be taken merely as affording a rough means of comparing the relative fecundity of the different nationalities. It is of interest, however, to note that the results for the year 1896 closely correspond as a rule with similar rates obtained for 1894-95, thus showing that there is a somewhat constant relation between the two sets of returns.

In Table 15 the rates per 1,000 population of persons becoming parents during the year 1896 are given for each nationality. It must be remembered that the age distribution of the natives of the United States and those born in foreign countries is very different, and that the latter would naturally show a considerable higher rate of parentage from the larger proportion of adults.

**Table 15.**—*Number of persons of each nationality who became parents in Michigan during the year 1896, with rates per 1,000 estimated population of like nationality; compared with corresponding rates for 1894-95.*

Country of birth.	Estimated population, 1896.	Parents of children born, 1896.	Parent rate per 1,000 inhabitants of same nationality, 1896.	Parent rate per 1,000 inhabitants of same nationality, 1895.	Parent rate per 1,000 inhabitants of same nationality, 1894.
All nationalities .....	2,315,517	92,604	40.0	40.6	39.8
United States .....	1,731,175	48,739	28.2	28.8	28.1
Canada .....	206,963	11,748	56.0	58.9	57.9
England and Wales .....	45,910	2,186	47.6	46.4	45.4
Scotland .....	11,740	384	32.7	35.0	36.7
Ireland .....	33,299	1,057	31.7	30.6	32.1
Germany .....	146,831	12,122	82.6	84.7	80.8
Austria .....	5,157	630	122.2	99.7	118.9
Holland .....	34,597	2,685	77.6	67.9	74.7
Belgium .....	3,207	213	66.4	72.9	76.3
Switzerland .....	3,287	147	44.7	46.1	45.6
Norway .....	8,362	709	84.8	93.7	80.3
Sweden .....	28,613	2,680	93.7	97.6	84.7
Denmark .....	7,841	483	61.6	73.9	73.2
Russia (including Finland) .....	18,284	2,234	122.2	115.3	113.4
Poland .....	15,215	2,158	141.8	183.4	140.6
Hungary .....	340	22	64.7	76.5	36.4
Bohemia .....	2,980	138	46.3	60.0	62.0
France .....	1,683	126	74.9	55.4	38.6
Italy .....	3,552	620	174.5	170.7	134.2
All others .....	3,486	1,303	373.8	131.9	579.6
Unknown .....		2,220			



**Table 16.**—*Exhibiting, for the State and counties, the nationalities of the foreign-born parents of children born in Michigan during the year 1896.*

State and counties.	Sex of parents.	Total foreign-born parents, 1896.	Canada.	Great Britain.	Ireland.	Germany (Austria).	Holland.	Norway, Sweden and Denmark.	Russia (Finland).	Poland.	All others.*
State.....	{ Total..... Males..... Females.....	41,645 21,987 19,658	11,748 6,200 5,548	2,570 1,523 1,047	1,057 611 446	12,752 6,653 6,099	2,685 1,396 1,289	3,872 1,986 1,886	2,234 1,137 1,097	2,158 1,107 1,051	2,569 1,374 1,195
Alcona.....	{ Total..... Males..... Females.....	113 60 53	99 50 49	4 4	1 1	1	-----	6 3 3	-----	-----	2 2
Alger.....	{ Total..... Males..... Females.....	49 29 20	40 24 16	-----	-----	-----	-----	9 5 4	-----	-----	-----
Allegan.....	{ Total..... Males..... Females.....	251 148 103	32 17 15	14 12 2	11 8 3	78 50 28	53 27 26	8 5 3	-----	-----	55 29 26
Alpena.....	{ Total..... Males..... Females.....	677 358 319	319 169 150	14 11 3	6 4 2	267 137 130	-----	47 23 24	8 4 4	9 6 3	7 4 3
Antrim.....	{ Total..... Males..... Females.....	174 86 88	84 43 41	8 4 4	6 1 5	15 7 8	17 8 9	4 1 3	1 1	2 1	37 20 17
Arenac.....	{ Total..... Males..... Females.....	181 101 80	147 83 64	2 1 1	3 1 2	24 13 11	-----	3 2 1	2 1 1	-----	-----
Baraga.....	{ Total..... Males..... Females.....	101 58 43	53 32 21	5 5 -----	2 1 1	-----	-----	29 14 15	2 1 1	8 4 4	2 1 1
Barry.....	{ Total..... Males..... Females.....	53 29 24	9 3 6	5 3 2	7 4 3	20 12 8	9 6 3	-----	1 -----	-----	2 1 1
Bay.....	{ Total..... Males..... Females.....	1,619 872 747	672 366 306	47 28 19	32 21 11	313 169 144	29 15 14	43 22 21	12 6 6	447 230 217	24 15 9
Benzie.....	{ Total..... Males..... Females.....	130 69 61	53 28 25	8 6 2	5 3 2	1 -----	2 -----	52 25 27	-----	-----	9 7 2
Berrien.....	{ Total..... Males..... Females.....	339 180 159	26 14 12	13 8 5	3 3 -----	243 127 116	3 2 1	14 8 6	26 12 14	8 4 4	3 2 1
Branch.....	{ Total..... Males..... Females.....	62 36 26	13 5 8	8 6 2	2 -----	30 20 10	1 1 -----	-----	-----	6 3 3	2 1 1
Calhoun.....	{ Total..... Males..... Females.....	190 102 88	46 23 23	26 14 12	11 7 4	74 41 33	5 3 2	2 1 1	-----	-----	26 13 13
Cass.....	{ Total..... Males..... Females.....	40 28 12	13 9 4	3 2 1	2 2 -----	21 14 7	-----	1 1 -----	-----	-----	-----
Charlevoix.....	{ Total..... Males..... Females.....	128 66 62	60 30 30	3 3 -----	4 1 3	35 19 16	6 4 2	14 7 7	-----	-----	6 2 4
Cheboygan.....	{ Total..... Males..... Females.....	487 223 214	261 134 127	24 11 13	11 6 5	99 49 50	1 1 -----	28 14 14	4 3 1	2 1 1	7 4 3

\* Includes Belgium, Switzerland, Hungary, Bohemia, France and Italy in addition to the countries included under this title in Table 13.

NATIONALITY OF PARENTS

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**Table 16.**—CONTINUED.—*Nationalities of the foreign-born parents of children born in Michigan.*

Counties.	Sex of parents.	Total foreign- born parents, 1896.	Can- ada.	Great Britain.	Ire- land.	Ger- many (Aus- tria).	Hol- land.	Nor- way, Swe- den and Den- mark.	Russia (Fin- land).	Po- land.	All others.
Chippewa.....	Total.....	630	514	44	13	17	-----	23	8	-----	11
	Males.....	321	259	26	8	8	-----	11	4	-----	5
	Females.....	309	255	18	5	9	-----	12	4	-----	6
Clare.....	Total.....	104	74	4	1	18	-----	7	-----	-----	-----
	Males.....	56	39	4	1	8	-----	4	-----	-----	-----
	Females.....	48	35	-----	-----	10	-----	3	-----	-----	-----
Clinton.....	Total.....	83	26	3	1	52	-----	-----	-----	-----	1
	Males.....	43	12	2	-----	29	-----	-----	-----	-----	-----
	Females.....	40	14	1	1	23	-----	-----	-----	-----	1
Crawford.....	Total.....	54	23	3	1	3	-----	20	1	-----	3
	Males.....	30	13	1	1	2	-----	10	1	-----	2
	Females.....	24	10	2	-----	1	-----	10	-----	-----	1
Delta.....	Total.....	742	270	21	25	98	1	278	16	4	29
	Males.....	389	140	12	13	53	1	142	8	2	13
	Females.....	353	130	9	7	45	-----	136	8	2	16
Dickinson.....	Total.....	1,044	147	102	10	134	-----	340	51	7	253
	Males.....	534	75	60	6	65	-----	172	24	3	129
	Females.....	510	72	42	4	69	-----	168	27	4	124
Eaton.....	Total.....	50	22	10	2	6	1	4	2	-----	3
	Males.....	29	13	7	2	4	-----	2	1	-----	-----
	Females.....	21	9	3	-----	2	1	2	1	-----	3
Emmet.....	Total.....	94	56	5	2	26	-----	3	2	-----	-----
	Males.....	56	34	3	1	14	-----	3	1	-----	-----
	Females.....	38	22	2	1	12	-----	-----	1	-----	-----
Genesee.....	Total.....	175	110	23	11	25	-----	-----	-----	-----	6
	Males.....	100	59	14	9	15	-----	-----	-----	-----	3
	Females.....	75	51	9	2	10	-----	-----	-----	-----	3
Gladwin.....	Total.....	97	86	5	1	4	-----	-----	-----	-----	1
	Males.....	55	49	3	1	1	-----	-----	-----	-----	1
	Females.....	42	37	2	-----	3	-----	-----	-----	-----	-----
Gogebic.....	Total.....	1,112	67	122	54	144	3	290	256	83	93
	Males.....	565	38	67	26	71	2	144	129	42	46
	Females.....	547	29	55	28	73	1	146	127	41	47
G'd Traverse.....	Total.....	132	43	6	2	36	-----	15	9	3	18
	Males.....	69	27	1	1	17	-----	7	6	1	9
	Females.....	63	16	5	1	19	-----	8	3	2	9
Gratiot.....	Total.....	94	52	11	2	20	-----	1	-----	-----	8
	Males.....	53	31	7	2	8	-----	-----	-----	-----	5
	Females.....	41	21	4	-----	12	-----	1	-----	-----	3
Hillsdale.....	Total.....	21	3	7	1	7	2	1	-----	-----	-----
	Males.....	10	1	3	1	4	1	-----	-----	-----	-----
	Females.....	11	2	4	-----	3	1	1	-----	-----	-----
Houghton.....	Total.....	2,826	551	312	86	484	-----	251	887	38	217
	Males.....	1,508	322	180	45	281	-----	120	447	19	114
	Females.....	1,318	229	132	41	223	-----	131	440	19	103
Huron.....	Total.....	906	485	42	10	280	1	5	3	73	7
	Males.....	491	249	30	8	150	1	3	2	43	5
	Females.....	415	236	12	2	130	-----	2	1	30	2
Ingham.....	Total.....	256	56	33	3	141	-----	3	3	6	11
	Males.....	138	34	19	2	70	-----	2	2	4	5
	Females.....	118	22	14	1	71	-----	1	1	2	6

**Table 16.**—CONTINUED.—*Nationalities of the foreign-born parents of children born in Michigan.*

Counties.	Sex of parents.	Total foreign- born parents, 1896.	Can- ada.	Great Britain.	Ire- land.	Ger- many (Aus- tria).	Hol- land.	Nor- way, Swe- den and Den- mark.	Russia (Fin- land).	Pol- land.	All others.
Ionia .....	{ Total.....	140	55	15	9	40	-----	5	-----	12	4
	{ Males.....	82	38	8	5	22	-----	3	-----	6	2
	{ Females.....	58	19	7	4	18	-----	2	-----	6	2
Iosco.....	{ Total.....	314	141	6	2	78	-----	24	56	4	5
	{ Males.....	169	77	5	2	40	-----	13	28	2	2
	{ Females.....	145	64	1	-----	38	-----	11	28	2	3
Iron.....	{ Total.....	282	60	19	11	47	-----	65	54	19	7
	{ Males.....	155	41	11	6	24	-----	33	26	9	5
	{ Females.....	127	19	8	5	23	-----	32	28	10	2
Isabella.....	{ Total.....	258	200	9	9	33	-----	1	2	-----	4
	{ Males.....	131	97	6	5	19	-----	-----	1	-----	3
	{ Females.....	127	103	3	4	14	-----	1	1	-----	1
Jackson.....	{ Total.....	317	72	66	27	127	-----	-----	6	16	3
	{ Males.....	167	32	46	13	63	-----	-----	3	8	2
	{ Females.....	150	40	20	14	64	-----	-----	3	8	1
Kalamazoo.....	{ Total.....	387	22	22	26	39	271	3	1	-----	3
	{ Males.....	202	10	14	15	21	136	2	1	-----	3
	{ Females.....	185	12	8	11	18	135	1	-----	-----	-----
Kalkaska.....	{ Total.....	38	26	1	2	8	-----	-----	-----	-----	1
	{ Males.....	21	13	1	2	5	-----	-----	-----	-----	-----
	{ Females.....	17	13	-----	-----	3	-----	-----	-----	-----	1
Kent.....	{ Total.....	2,494	210	47	66	404	1,230	163	49	107	218
	{ Males.....	1,307	112	27	37	218	633	84	27	56	113
	{ Females.....	1,187	98	20	29	186	597	79	22	51	105
Keweenaw.....	{ Total.....	122	20	6	1	9	-----	4	82	-----	-----
	{ Males.....	65	12	4	-----	6	-----	2	41	-----	-----
	{ Females.....	57	8	2	1	3	-----	2	41	-----	-----
Lake.....	{ Total.....	61	31	4	-----	14	2	10	-----	-----	-----
	{ Males.....	36	19	2	-----	8	1	6	-----	-----	-----
	{ Females.....	25	12	2	-----	6	1	4	-----	-----	-----
Lapeer.....	{ Total.....	290	178	19	2	74	-----	5	-----	-----	2
	{ Males.....	158	100	11	2	41	-----	3	-----	-----	1
	{ Females.....	122	78	8	-----	33	-----	2	-----	-----	1
Leelanau.....	{ Total.....	236	48	4	-----	61	-----	72	1	4	26
	{ Males.....	128	27	3	-----	45	-----	36	1	3	13
	{ Females.....	108	21	1	-----	36	-----	36	-----	1	13
Lenawee.....	{ Total.....	129	12	7	12	90	-----	5	1	-----	2
	{ Males.....	69	6	6	8	46	-----	1	-----	-----	2
	{ Females.....	60	6	1	4	44	-----	4	1	-----	-----
Livingston.....	{ Total.....	71	17	14	5	27	-----	8	-----	-----	-----
	{ Males.....	42	12	9	2	14	-----	5	-----	-----	-----
	{ Females.....	29	5	5	3	13	-----	3	-----	-----	-----
Luce.....	{ Total.....	74	35	1	3	4	-----	10	20	-----	1
	{ Males.....	42	22	1	2	2	-----	5	10	-----	-----
	{ Females.....	32	13	-----	1	2	-----	5	10	-----	1
Mackinac.....	{ Total.....	162	99	10	6	16	-----	19	2	-----	10
	{ Males.....	84	50	8	3	8	-----	10	1	-----	4
	{ Females.....	78	49	2	3	8	-----	9	1	-----	6
Macomb.....	{ Total.....	374	64	7	3	266	1	2	-----	-----	31
	{ Males.....	207	27	6	2	151	1	1	-----	-----	19
	{ Females.....	167	37	1	1	115	-----	1	-----	-----	12

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**Table 16.**—CONTINUED.—*Nationalities of the foreign-born parents of children born in Michigan.*

Counties.	Sex of parents.	Total foreign- born parents, 1896.	Can- ada.	Great Britain.	Ire- land.	Ger- many (Aus- tria).	Hol- land.	Nor- way, Swe- den and Den- mark.	Russia (Fin- land).	Pol- and.	All others.
Manistee.....	Total.....	1,118	93	18	2	372	-----	325	13	293	2
	Males.....	571	50	11	1	187	-----	165	7	148	2
	Females.....	547	43	7	1	185	-----	160	6	145	-----
Marquette.....	Total.....	1,965	419	392	82	89	-----	564	348	-----	71
	Males.....	1,042	235	219	44	46	-----	286	175	-----	37
	Females.....	923	184	173	38	43	-----	278	173	-----	34
Mason.....	Total.....	512	149	9	7	134	-----	133	26	45	9
	Males.....	275	82	7	5	65	-----	73	13	23	7
	Females.....	237	67	2	2	69	-----	60	13	22	2
Mecosta.....	Total.....	234	115	7	5	54	-----	46	6	-----	1
	Males.....	133	69	6	4	27	-----	24	3	-----	-----
	Females.....	101	46	1	1	27	-----	22	3	-----	1
Menominee.....	Total.....	1,170	376	4	3	84	4	130	15	1	553
	Males.....	627	214	3	8	43	3	68	7	-----	286
	Females.....	543	162	1	-----	41	1	62	8	1	267
Midland.....	Total.....	193	121	8	7	46	-----	3	4	-----	4
	Males.....	111	71	3	4	26	-----	2	2	-----	3
	Females.....	82	50	5	3	20	-----	1	2	-----	1
Missaukee.....	Total.....	227	56	5	7	21	102	29	7	-----	-----
	Males.....	127	29	5	5	12	58	14	4	-----	-----
	Females.....	100	27	-----	2	9	44	15	3	-----	-----
Monroe.....	Total.....	168	20	9	-----	127	-----	-----	2	5	5
	Males.....	96	9	4	-----	76	-----	-----	1	3	3
	Females.....	72	11	5	-----	51	-----	-----	1	2	2
Montcalm.....	Total.....	285	85	13	1	58	3	113	-----	1	11
	Males.....	155	46	8	-----	32	3	60	-----	-----	5
	Females.....	130	39	5	1	26	-----	53	-----	-----	6
Montmorency.....	Total.....	69	52	3	-----	14	-----	-----	-----	-----	-----
	Males.....	37	27	2	-----	8	-----	-----	-----	-----	-----
	Females.....	32	25	1	-----	6	-----	-----	-----	-----	-----
Muskegon.....	Total.....	770	105	16	16	117	251	249	-----	-----	16
	Males.....	402	53	7	9	62	113	126	-----	-----	11
	Females.....	368	49	9	7	55	120	123	-----	-----	5
Newaygo.....	Total.....	154	45	7	1	25	47	24	5	-----	-----
	Males.....	84	26	3	1	13	26	13	2	-----	-----
	Females.....	70	19	4	-----	12	21	11	3	-----	-----
Oakland.....	Total.....	191	77	28	11	68	-----	-----	-----	-----	7
	Males.....	92	35	13	6	34	-----	-----	-----	-----	4
	Females.....	99	42	15	5	34	-----	-----	-----	-----	3
Oceana.....	Total.....	160	49	3	3	46	20	28	2	-----	11
	Males.....	78	24	1	1	22	9	13	1	-----	7
	Females.....	82	25	2	2	24	11	13	1	-----	4
Ogemaw.....	Total.....	72	59	5	2	6	-----	-----	-----	-----	-----
	Males.....	38	29	4	2	3	-----	-----	-----	-----	-----
	Females.....	34	30	1	-----	3	-----	-----	-----	-----	-----
Ontonagon.....	Total.....	61	41	4	1	2	-----	4	9	-----	-----
	Males.....	39	25	3	1	2	-----	3	5	-----	-----
	Females.....	22	16	1	-----	-----	-----	1	4	-----	-----
Osceola.....	Total.....	269	140	14	-----	58	2	50	-----	-----	5
	Males.....	148	73	8	-----	34	1	29	-----	-----	3
	Females.....	121	67	6	-----	24	1	21	-----	-----	2

**Table 16.**—CONCLUDED.—*Nationalities of the foreign-born parents of children born in Michigan.*

Counties.	Sex of parents.	Total foreign- born parents, 1896.	Can- ada.	Great Britain.	Ire- land.	Ger- many (Aus- tria).	Hol- land.	Nor- way, Swe- den and Den- mark.	Russia (Fin- land).	Pol- land.	All others.
Oscoda.....	Total.....	12	9	1	-----	1	-----	1	-----	-----	-----
	Males.....	8	6	1	-----	-----	-----	1	-----	-----	-----
	Females.....	4	3	-----	-----	1	-----	-----	-----	-----	-----
Otsego.....	Total.....	128	* 44	4	2	35	-----	9	-----	31	3
	Males.....	68	26	2	1	17	-----	6	-----	15	1
	Females.....	60	18	2	1	18	-----	3	-----	16	2
Ottawa.....	Total.....	762	46	6	6	89	587	24	-----	2	2
	Males.....	392	22	2	3	45	305	12	-----	1	2
	Females.....	370	24	4	3	44	282	12	-----	1	-----
Presque Isle..	Total.....	244	44	2	1	179	-----	1	1	15	1
	Males.....	127	22	2	1	93	-----	-----	1	7	1
	Females.....	117	22	-----	-----	86	-----	1	-----	8	-----
Roscommon....	Total.....	13	9	2	-----	2	-----	-----	-----	-----	-----
	Males.....	6	4	2	-----	-----	-----	-----	-----	-----	-----
	Females.....	7	5	-----	-----	2	-----	-----	-----	-----	-----
Saginaw.....	Total.....	1,463	483	83	20	729	2	23	10	77	36
	Males.....	793	257	51	12	387	2	15	6	40	23
	Females.....	670	226	32	8	342	-----	8	4	37	13
Sanilac.....	Total.....	879	686	45	13	112	-----	7	2	4	10
	Males.....	468	360	26	11	55	-----	4	1	3	8
	Females.....	411	326	19	2	57	-----	3	1	1	2
Schoolcraft....	Total.....	230	113	9	3	31	-----	58	14	-----	2
	Males.....	131	67	4	1	18	-----	33	7	-----	1
	Females.....	99	46	5	2	13	-----	25	7	-----	1
Shiawassee....	Total.....	139	78	16	4	32	-----	2	-----	-----	7
	Males.....	81	44	13	3	17	-----	1	-----	-----	3
	Females.....	58	34	3	1	15	-----	1	-----	-----	4
St. Clair.....	Total.....	666	411	63	20	161	-----	4	-----	-----	7
	Males.....	368	221	36	12	92	-----	3	-----	-----	4
	Females.....	298	190	27	8	69	-----	1	-----	-----	3
St. Joseph....	Total.....	77	3	8	-----	64	2	-----	-----	-----	-----
	Males.....	45	3	8	-----	33	1	-----	-----	-----	-----
	Females.....	32	-----	-----	-----	31	1	-----	-----	-----	-----
Tuscola.....	Total.....	396	293	30	7	61	-----	-----	3	-----	4
	Males.....	217	162	17	4	29	-----	-----	3	-----	2
	Females.....	181	131	13	3	32	-----	-----	-----	-----	2
Van Buren....	Total.....	57	16	9	3	25	4	-----	-----	-----	-----
	Males.....	30	8	7	1	12	2	-----	-----	-----	-----
	Females.....	27	8	2	2	13	2	-----	-----	-----	-----
Washtenaw....	Total.....	282	43	22	11	195	-----	1	1	5	4
	Males.....	148	21	9	8	103	-----	1	1	2	3
	Females.....	134	22	13	3	92	-----	-----	-----	3	1
Wayne.....	Total.....	9,736	1,600	526	301	5,627	16	20	190	821	635
	Males.....	4,964	724	307	166	2,880	8	11	102	417	349
	Females.....	4,772	876	219	135	2,747	8	9	88	404	286
Wexford.....	Total.....	238	66	5	3	17	7	129	8	-----	3
	Males.....	129	35	4	3	9	4	68	4	-----	2
	Females.....	109	31	1	-----	8	3	61	4	-----	1

## BIRTHS OF SPECIAL STATISTICAL INTEREST.

After concluding the discussion of births as a whole, it is customary to devote several tables to some special classes of births, namely, stillbirths, twins, and illegitimates. The first group has intimate relations with the subject of mortality, and, in fact, the total number of stillbirths appears in all of the tables of deaths in Part IV as well as in this part of the Report. The frequency of plural births is of both popular and scientific interest, and the subject of illegitimacy is also of great practical significance.

**Table 17.**—*Number of stillbirths, pairs of twins and illegitimate children born in Michigan during the year 1896, by counties.*

State and counties.	Number of stillbirths in 1896.	Number of pairs of twins born in 1896.	Number of illegitimate children born in 1896.	Counties.	Number of stillbirths in 1896.	Number of pairs of twins born in 1896.	Number of illegitimate children born in 1896.
State.....	1,254	520	369	Keweenaw.....	5	1	1
Alcona.....	3	1		Lake.....	4		1
Alger.....	1			Lapeer.....	13	5	2
Allegan.....	20	9	6	Leelanau.....	2	7	
Alpena.....	10	6		Lenawee.....	10	4	3
Antrim.....	5	5	2	Livingston.....	1	1	
Arenac.....		2		Luce.....	2	2	1
Baraga.....	3		5	Mackinac.....	6	1	2
Barry.....	12	7	2	Macomb.....	9	8	3
Bay.....	19	17	6	Manistee.....	32	4	2
Benzie.....	4	2	4	Marquette.....	50	18	5
Berrien.....	17	11	3	Mason.....	14	3	3
Branch.....	14	8	1	Mecosta.....	10	3	7
Calhoun.....	29	16	4	Menominee.....	35	11	5
Cass.....	6	8	2	Midland.....	6	4	
Charlevoix.....	3	2	1	Missaukee.....	8	2	1
Cheboygan.....	12	3	2	Monroe.....	17	10	3
Chippewa.....	6	4	5	Montcalm.....	18	8	5
Clare.....	2		4	Montmorency.....	3	3	1
Clinton.....	6	5	2	Muskegon.....	22	9	3
Crawford.....	2			Newaygo.....	8	4	3
Delta.....	21	5	1	Oakland.....	7	10	1
Dickinson.....	4	6	2	Oceana.....	8	11	8
Eaton.....	9	7	3	Ogemaw.....	1	3	
Emmet.....	4	5	6	Ontonagon.....	4	2	
Genesee.....	13	9	4	Osceola.....	1	4	2
Gladwin.....	1		1	Oscoda.....			1
Gogebic.....	7	5	3	Otsego.....	1	1	1
Grand Traverse.....	2	1		Ottawa.....	12	12	4
Gratiot.....	5	4	3	Presque Isle.....	2		1
Hillsdale.....	7	6		Roscommon.....			1
Houghton.....	37	14	8	Saginaw.....	77	15	27
Huron.....	15	8	6	Sandiac.....	19	12	1
Ingham.....	25	7	3	Schoolcraft.....	4		1
Ionia.....	15	6	6	Shiawassee.....	5	4	2
Iosco.....	11	2	1	St. Clair.....	13	7	
Iron.....	11	1		St. Joseph.....	6	3	1
Isabella.....	6	7	5	Tuscola.....	11	6	3
Jackson.....	24	5	3	Van Buren.....	13	1	1
Kalamazoo.....	22	11	7	Washtenaw.....	6	6	4
Kalkaska.....	5	2		Wayne.....	288	74	127
Kent.....	94	21	21	Wexford.....	9	3	

**Table 18.**—*The relation of stillborn, twin and illegitimate children to total births returned, for the years 1887-96, and the average for the ten-year period. Also the number of pairs of twins and cases of triplets in each year.*

Years.	All children born.	Stillbirths.		Twins.		Illegitimates.		Pairs of twins.	Cases of triplets.
		Number.	Per 1,000 births.	Number.	Per 1,000 births.	Number.	Per 1,000 births.		
1887.....	46,226	897	19.4	1,056	22.8	422	9.1	528	5
1888.....	48,952	1,358	27.7	1,170	23.9	591	12.1	583	8
1889.....	49,272	1,202	24.4	1,064	21.4	421	8.5	527	6
1890.....	52,306	1,397	26.7	1,542	29.5	455	8.7	771	6
1891.....	50,812	1,090	21.5	1,354	26.6	369	7.7	677	7
1892.....	46,221	1,014	21.9	1,114	24.1	405	8.8	557	6
1893.....	47,722	1,019	21.4	986	20.7	505	10.6	493	3
1894.....	44,596	1,002	22.5	856	19.2	355	8.0	428	8
1895.....	46,273	1,109	24.0	956	20.7	402	8.7	478	5
1896.....	46,302	1,254	27.1	1,040	22.5	369	8.0	520	7
Average, 1887-96...	47,868	1,134	23.7	1,113	23.3	431	9.0	556	6

**TRIPLETS.**—There were seven cases of triplets reported for 1896, as follows:—Gogebic county, born in May, males, parents both foreign; Kent county, born in November, 1 male, 2 females, 1 female only born alive, parents both foreign; Macomb county, born in March, 1 male, 2 females, parents both native; Saginaw county, born in May, 1 male, 2 females, parents both foreign; Sanilac county, born in November, females, foreign father and native mother; St. Clair county (2 sets), both born in August, 2 males and 1 female, native parents, and all females, foreign father and native mother. One of the latter stillborn.

**Table 19.**—*Exhibiting, by sex and months, the number of stillborn, twin and illegitimate children returned in Michigan for the year 1896.*

Condition.	Sex.	Year, 1896.	Months of birth, 1896.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Stillbirths.....	Total.....	1,254	86	86	99	112	106	95	100	97	108	102	120	138	5
	Males.....	687	42	49	51	57	62	53	56	55	54	56	64	85	3
	Females.....	520	41	35	44	51	41	37	38	36	54	42	52	48	1
	Unknown..	47	3	2	4	4	3	5	6	6	....	4	4	5	1
Twins*	Total.....	1,040	58	76	80	88	84	104	104	110	76	100	70	84	6
	Males.....	527	33	41	35	37	41	50	51	67	40	41	36	51	4
	Females.....	511	25	35	45	51	43	54	53	43	36	59	34	33	..
	Unknown..	2	..	..	..	..	..	..	..	..	..	..	..	..	2
Illegitimates.....	Total.....	369	29	39	45	46	29	26	17	26	20	23	29	37	3
	Males.....	179	19	21	22	24	5	11	10	14	8	10	13	22	..
	Females.....	188	10	18	23	22	24	15	7	12	12	13	16	15	1
	Unknown..	2	..	..	..	..	..	..	..	..	..	..	..	..	2

\* The total number of twin children, i. e., twice the number of pairs of twins. Triplets are not included.

**Table 20.**—*Parent nativity of stillborn, twin and illegitimate children returned in Michigan for the year 1896.*

Nativity of parents.	Number of stillborn children, 1896.				Number of pairs of twins, 1896.					Number of illegitimate children, 1896.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	One of each.	Unknown.	Total.	Males.	Females.	Unknown.
All nativities.....	1,254	687	520	47	520	158	150	211	1	369	179	188	2
Both native born.....	436	231	185	20	243	68	70	105	---	48	28	18	2
Both foreign born.....	365	199	155	11	162	48	50	64	---	15	7	8	---
Foreign father and native mother.....	111	71	37	3	69	27	18	24	---	8	---	8	---
Foreign mother and native father.....	57	32	23	2	28	9	8	11	---	6	4	2	---
Unknown mother, father native.....	8	4	4	---	4	1	1	2	---	2	2	---	---
Unknown mother, father foreign.....	4	3	1	---	3	2	1	---	---	---	---	---	---
Unknown father, mother native.....	8	2	4	2	4	1	1	1	1	113	52	61	---
Unknown father, mother foreign.....	3	2	1	---	1	---	---	1	---	26	18	8	---
Both unknown.....	262	143	110	9	6	2	1	3	---	151	68	83	---
One or both native* .....	620	340	253	27	348	106	98	143	1	177	86	89	2
One or both foreign*.....	540	307	217	16	263	86	77	100	---	55	29	26	---

\* Including cases in which nativity of either parent is unknown.

**Table 21.**—*Exhibiting the proportion of males to females among children born alive, stillbirths, twins and illegitimates in Michigan during the years 1887-96, with average for the ten-year period.*

Years.	Children born alive.				Stillbirths.				Twins.*				Illegitimates.			
	Males.	Females.	Unknown.	Males per 100 females.	Males.	Females.	Unknown.	Males per 100 females.	Males.	Females.	Unknown.	Males per 100 females.	Males.	Females.	Unknown.	Males per 100 females.
1887.....	23,523	21,771	35	108	503	359	35	140	575	481	---	120	196	224	2	88
1888.....	24,717	22,867	10	108	809	534	15	151	617	540	---	112	293	298	---	98
1889.....	24,950	23,009	21	108	692	483	27	143	547	507	---	107	200	219	2	91
1890.....	26,766	24,109	43	111	757	587	53	129	720	816	6	88	232	217	6	107
1891.....	25,856	23,812	54	109	583	434	73	134	637	711	6	90	174	204	11	85
1892.....	23,551	21,621	35	109	597	374	43	160	553	559	2	99	191	206	8	93
1893.....	24,162	22,511	30	107	572	398	49	144	490	486	10	101	278	227	---	122
1894.....	22,604	20,976	14	108	549	402	51	136	448	408	---	116	164	188	3	87
1895.....	23,206	21,941	17	106	631	413	65	153	458	496	2	92	200	201	1	100
1896.....	23,182	21,840	26	106	687	520	47	132	527	511	2	103	179	188	2	95
Average, 1887-96.....	24,252	22,454	29	108	638	450	46	142	557	552	3	101	211	217	4	97

\* Twin children, i. e., twice the number of pairs of twins born; triplets not included.



**Table 22.**—*Exhibiting the parent nativity of plural births\* in Michigan for the ten years 1887-96, inclusive.*

Years.	Total	Native born.		Foreign born.		Mixed.		Unknown.	
		Num-ber.	Per-cent.	Num-ber.	Per-cent.	Num-ber.	Per-cent.	Num-ber.	Per-cent.
1887.....	1,071	448	41.8	423	39.5	168	15.7	32	3.0
1888.....	1,194	485	40.6	530	44.4	159	13.3	20	1.7
1889.....	1,072	410	38.3	486	45.3	172	16.0	4	.4
1890.....	1,561	437	28.0	904	57.9	200	12.8	20	1.3
1891.....	1,375	434	31.6	746	54.3	173	12.6	22	1.6
1892.....	1,132	418	36.9	472	41.7	212	18.7	30	2.7
1893.....	995	397	39.8	418	42.1	150	15.1	30	3.0
1894.....	880	418	47.5	297	33.8	145	16.5	20	2.3
1895.....	971	420	43.3	347	35.7	183	18.8	21	2.2
1896.....	1,061	492	46.4	333	31.4	224	21.1	12	1.1
Average, 1887-96.....	1,131	436	38.5	496	43.9	179	15.8	21	1.9

\* Triplets included.

**Table 23.**—*Exhibiting the nativity of the mothers of illegitimates in Michigan for the years 1887-96, inclusive.*

Years.	Mothers of illegitimate children.						
	Total.	Native.		Foreign.		Unknown.	
		Number.	Percent.	Number.	Percent.	Number.	Percent.
1887.....	422	151	35.8	72	17.1	199	47.2
1888.....	591	149	25.2	72	12.2	370	62.6
1889.....	419	126	30.1	73	17.4	220	52.5
1890.....	450	148	32.9	73	16.2	229	50.9
1891.....	386	143	37.1	66	17.1	177	45.8
1892.....	405	163	40.2	71	17.5	171	42.2
1893.....	501	223	44.5	111	22.2	167	33.3
1894.....	352	194	55.1	58	16.5	100	28.4
1895.....	396	217	54.8	81	20.5	98	24.7
1896.....	365	165	45.2	47	12.9	153	41.9
Average, 1887-96.....	429	168	39.2	72	16.8	188	43.8

## STILLBIRTHS, TWINS AND ILLEGITIMATES.

Tables 17 to 23, inclusive, are devoted to the consideration of certain classes of births of peculiar interest, namely, births of stillborn children, of twins and of illegitimate children. Stillbirths are returned as deaths as well as births, and in practice it is found that a careful comparison of the two sets of returns is necessary in order that none may be omitted or twice counted. Stillbirths are defined, for registration purposes, in the instructions issued to the enumerators (supervisors), as cases in which the children were *born dead*, not having lived an appreciable time, hours or days, after birth. It was observed in the examination of the returns that frequently cases would be reported as "stillborn" in which the child was also reported to have lived a day or more. For such cases the enumerators are directed to report another cause of death, and the term "unknown" is substituted for "still-born" if no other cause can be ascertained.

Following the custom practiced in these Reports since 1868, stillbirths are compiled both as births and deaths; since 1873 the stillbirths returned in each set of returns have been individually compared, and the total number, exclusive of duplicates, has been inserted in all the tables of births and of deaths. This is not the usual statistical practice, which is to exclude stillbirths from both births and deaths, since they do not add to the population or decrease it. For comparison with statistics of other states and countries, it is usually necessary, therefore, to diminish the Michigan returns of deaths by about 5 per cent, this being the usual percentage of stillbirths to total deaths, and the returns of births by about two per cent for a similar reason. In Table 3, Part I, may be found a statement of stillbirths and still-birth rates for each year of registration, together with comparisons with total births and deaths. It is a preliminary step to the separate statement of stillbirths, apart from both births and deaths. In the tables in Part IV, accordingly, stillbirths are separated from other deaths under one year of age.

## DELINQUENT TOWNSHIPS AND TOWNSHIPS REPORTING NO BIRTHS, 1896.

Tables 24 and 25 respectively present the townships and wards reporting no births for the year 1896, and those whose supervisors failed to perform their duty and make returns to the county clerk as required by law. The aggregate population of townships in which it was stated that no births occurred was 2,358. The aggregate population of delinquent townships for 1896 was 6,165. In both classes it is undoubtedly true that births actually occurred during the year in many cases, and that neglect or forgetfulness of a somewhat troublesome duty is chiefly responsible for failures to report.

**Table 24.**—*List of townships in which it was reported that no births occurred in 1896, showing population in 1894.*

County.	Township.	Population, June 1, 1894.
Clare.....	{ Harrison, 1st ward.....	224
	{ Franklin.....	178
Crawford.....	{ South Branch.....	108
	{ Grove.....	96
Gladwin.....	{ Billings.....	122
	{ Buckeye.....	254
Kalkaska.....	Glade.....	122
Lake.....	Lake.....	89
Luce.....	Columbus.....	57
Mackinac.....	Portage.....	158
Montmorency.....	Wheatfield.....	130
Ontonagon.....	Carp Lake.....	53
	{ Gerrish.....	64
Roscommon.....	{ Markey.....	39
	{ Nester.....	211
	{ St. Helens.....	297
Wexford.....	Slagle.....	157
Total population reporting no births.....		2,358

**Table 25.**—*List of townships from which no returns of births were received for 1896, showing population in 1894. (List closed December 1, 1897.)*

County.	Township.	Population, June 1, 1894.
Alcona.....	Alcona.....	965
Charlevoix.....	{ Boyne Valley.....	735
	{ Galilee.....	80
Ogemaw.....	{ Beaver Lake.....	97
	{ Mills.....	81
	{ Richland.....	623
Schoolcraft.....	Hiawatha.....	1,612
St. Clair.....	Clay.....	1,952
Total population of delinquent townships.....		6,165

### PART III.—MARRIAGES IN MICHIGAN DURING THE YEAR 1896.

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The number of marriages registered in Michigan during the year 1896 was 18,897, a decrease of 55 from the preceding year. Both 1895 and 1896, however, had many more marriages than were recorded in 1894. The marriage rate of the year 1896 was 16.3 persons married per 1,000 estimated population as compared with a rate of 16.6 for the preceding year.

Comparison of the number of marriages and marriage rates for each year of registration may be made by means of Table 2, Part I. Also in Tables 5 and 6, Part I, the returns of marriages and marriage rates are given for each county, and it may be noted whether the returns show an increase or decrease, and to what extent. The changes were mostly small variations in the different counties, few showing any very marked alterations in rates.

The usual statistical analysis of the results of the compilation of marriages for the current year is presented in the following text and tables. No new tables have been introduced on this subject in the present Report, but the important distinction between the general nativity and specific country of birth or nationality, has been continued and will yield some most interesting results. Also the necessity for some revision of our present marriage license law, providing for the surer disposal, and possibly the limitation, of marriage licenses is apparent from the considerable number of licenses issued (see Table 28) from which no return is ever received.

Marriages have long been registered in Michigan more accurately than any other class of vital statistics, and data have been accumulated that are well worthy of careful study. There is probably no other state in the west where the statistics are as readily accessible, and for this reason the attention of sociological students might with advantage be directed to the material contained in these Reports. Of course in the routine treatment of an official statistical report it is quite impossible to touch on many subjects which might prove of interest; it is hoped that enough has been done, however, to suggest their importance, and the Department will be glad to afford any additional information in its possession to workers on sociological subjects at any time.

## SUMMARY OF THE REGISTRATION OF MARRIAGES IN 1896.

A condensed statement of the principal features of interest in the registration of marriages in Michigan for the year 1896 is herewith presented:

Total number of marriages performed, . . . . .	18,897
Marriages per 1,000 estimated population, . . . . .	8.2
Persons married per 1,000 population, . . . . .	16.3
Decrease of number of marriages registered for the year 1896 (18,897)	
from the number for 1895 (18,952), . . . . .	55

The largest number of marriages of any month in the year occurred in November, 2,028 or 10.7 per cent; the smallest number was recorded for August, 1,238 or 6.6 per cent.

Of the 18,897 marriages, there were:

Both bridegroom and bride of native birth, . . . . .	11,551
Both bridegroom and bride of foreign birth, . . . . .	3,055

Including mixed marriages, *i. e.*, those in which the parties were of different nativities, there were married:

Males of native birth, . . . . .	13,388
Males of foreign birth, . . . . .	5,487
Females of native birth, . . . . .	13,913
Females of foreign birth, . . . . .	4,570

The following are the most important combinations by nationality:

Males native, females born in Canada, . . . . .	848
Males born in Canada, females native, . . . . .	1,170
Both males and females born in Canada, . . . . .	764
Males born in Germany, females native, . . . . .	467
Both males and females born in Germany, . . . . .	713

Of the 37,794 persons married, the following was the distribution according to color:

White, . . . . .	37,422
Colored (Black, 148; Mulatto, 115; Indian, 105; unknown color, 4), . . . . .	372

As to age at marriage, the most important groups were:

Males aged 20 to 24 inclusive, . . . . .	7,029 or 37.2 per cent.
Males aged 25 to 29 inclusive, . . . . .	5,882 or 31.1 per cent.
Females aged under 20 years, . . . . .	5,496 or 29.1 per cent.
Females aged 20 to 24 inclusive, . . . . .	7,685 or 40.7 per cent.

Average ages of each nativity, by sex, were as follows:

Average age of native born males married in 1896, . . . . .	26.7 years.
Average age of native born females married in 1896, . . . . .	23.6 years.
Average age of foreign born males married in 1896, . . . . .	30.4 years.
Average age of foreign born females married in 1896, . . . . .	25.6 years.

The number of persons of each sex married at ages under those established by law is of importance. Each year a few such cases are returned, but, on the whole, the provisions of the license law in this respect are carefully observed. The record for 1896 is unusually good, no marriages of males and only three marriages of females at unlawful ages having been returned.

Number of females married below legal age (16 years), . . . . .	3
-----------------------------------------------------------------	---

The arrangement and contents of the tables relating to marriages are as follows:

*Synopsis of tables relating to marriages.*

Table.	Marriages in Michigan, 1896.
26.	Marriages, by months, for each of the years 1887-96, inclusive; with average for the ten-year period.
27.	Comparison of marriages, by months, for the year 1896, with the corrected average for the ten-year period, 1887-96.
28.	Licenses issued on which returns were not made during the year 1896, by counties; with percentage of licenses not returned to licenses returned.
29.	Marriages by months, 1896,—detailed statement by counties. NOTE on color of persons married in Michigan in 1896.
30.	Number and per cent of persons married, by nativity and sex, 1896.
31.	Marriages in Michigan, by nativity, in the year 1896, and averages for five successive quinquennial periods.
32.	The average ages, by nativity, of persons married in Michigan during the years 1887-96; with the mean of the ten-year period.
33.	Marriages and persons married, by nativity, in Michigan, during the year 1896, showing distribution by counties.
34.	Intermarriages, by nationality, 1896.
35.	Marriage rates, by nationality, in Michigan, 1894-96.
36.	Nationality of foreign-born persons married in Michigan in 1896, showing distribution by counties.
37.	Marriages in 1896, arranged according to the periods of age of bridegrooms and brides, with distinction of civil condition.
38.	Number of first marriages, second marriages, etc., performed in Michigan in 1896.
39.	Number of persons married in Michigan under the legal ages, by sex, during ten years, 1887-96.
40.	Number of females married in Michigan at each year of age under 20 during the years 1894-96.
41.	Statement of the per cents of males married at each period of age in the year, 1896, with averages for five successive quinquennial periods, 1871-95.
42.	Statement of the per cents of females married at each period of age in the year 1896, with averages for five successive quinquennial periods, 1871-95.
43.	Persons married, by sex and periods of age, in each county, 1896.

## MARRIAGES BY MONTHS.

Table 26 shows the number of marriages returned for each month of the year 1896 in convenient form for comparison with the corresponding figures for each of the years 1887-96, and with the average of the decade. The maximum for 1896 occurred in November, its usual place. The minimum number registered was for the month of August. February has usually the smallest number of marriages, owing partly to the fact that that calendar month is the shortest of the year, and partly to the fact that the daily marriage rate of this part of the year is nearly or quite the lowest of that at any other season. This fact, and the true relations of the months as to the relative numbers of marriages performed in them, are shown by Table 27, in which the average daily number of marriages for each calendar month of the year 1896 and of the ten-year period, 1887-96, and also the relative rank of each month on a scale of 100, are given. In the figures given for the ten-year period, care has been taken to increase the numbers registered by the ratio between the average population of the decade and that of the year 1896, thus making the two sets of figures directly comparable.

**Table 26.**—*Marriages returned, by months, for the years 1887-96; with average for the ten-year period.*

Years	Total marriages.	Months of marriage.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1887----	17,179	1,192	1,087	1,288	1,322	1,348	1,321	1,342	1,426	1,793	1,555	1,776	1,724	5
1888----	17,297	1,280	1,204	1,218	1,511	1,315	1,244	1,254	1,218	1,582	1,824	1,836	1,804	7
1889----	18,317	1,439	1,331	1,415	1,398	1,459	1,404	1,382	1,256	1,652	1,908	1,892	1,778	3
1890----	18,664	1,315	1,252	1,249	1,614	1,356	1,482	1,436	1,314	1,739	1,854	2,057	1,994	2
1891----	19,244	1,466	1,326	1,339	1,623	1,419	1,502	1,380	1,383	1,749	1,986	1,984	2,086	1
1892----	20,107	1,335	1,455	1,542	1,543	1,590	1,751	1,386	1,407	1,826	2,037	2,181	2,049	5
1893----	19,197	1,452	1,273	1,318	1,663	1,574	1,769	1,408	1,356	1,730	2,018	2,060	1,574	2
1894----	18,220	1,366	1,060	1,403	1,552	1,348	1,486	1,262	1,256	1,704	2,034	1,992	1,754	3
1895----	18,952	1,389	1,342	1,324	1,536	1,456	1,690	1,367	1,349	1,658	2,110	2,036	1,694	1
1896----	18,897	1,443	1,271	1,368	1,684	1,361	1,762	1,305	1,238	1,759	1,826	2,028	1,846	6
Average 1887-96	18,605	1,368	1,260	1,346	1,545	1,423	1,545	1,352	1,320	1,719	1,915	1,984	1,830	4

Maxima in full-face type; minima in *italics*.**Table 27.**—*Comparison of marriages registered for the year 1896, by months, with the ten years 1887-96, showing average daily number registered in each month, and the rank of each month on a standard scale of 100. Data for ten-year period 1887-96 corrected for increase of population.*

Year and months.	Year 1896.			Average of ten years, 1887-96.		
	Marriages registered.	Average daily number.	Rank.	*Marriages registered.	Average daily number.	Rank.
Year.....	18,897	51.6	-----	20,062	54.9	-----
January.....	1,443	46.5	90	1,475	47.6	87
February.....	1,271	43.8	85	1,359	48.0	87
March.....	1,368	44.1	85	1,451	46.8	85
April.....	1,684	56.1	109	1,666	55.5	101
May.....	1,361	43.9	85	1,534	49.5	90
June.....	1,762	58.7	114	1,666	55.5	101
July.....	1,305	42.1	82	1,458	47.0	86
August.....	1,238	39.9	77	1,423	45.9	84
September.....	1,759	58.6	114	1,854	61.8	113
October.....	1,826	58.9	114	2,065	66.6	121
November.....	2,028	67.6	131	2,139	71.3	130
December.....	1,846	59.5	115	1,973	63.6	116
Unknown.....	6	-----	-----	4	-----	-----
Average month.....	1,575	51.6	100	1,672	54.9	100

\* Numbers given in Table 26 multiplied by 1.0783, the ratio between the population of Michigan in 1896 and the average estimated population of the period 1887-96. The monthly and daily numbers are, therefore, directly comparable for the year and ten-year period.

## LICENSES ISSUED, BUT MARRIAGES NOT RETURNED, BY COUNTIES, 1896.

A very important exhibit is made in Table 28 of the number of licenses issued in each county of the State during the year 1896, for which returns have not been made. The aggregate number for the entire State was 402, or 2.1 per cent of the total marriages of the year. Whether marriages were solemnized on these licenses or not, there is no way of determining. In the majority of instances they probably were, and the failure of the completed marriage record to appear is the result of negligence and disregard of the law on the part of the clergyman or justice of the peace who performed the ceremony, or, possibly, may be due to carelessness in the office of the county clerk. Certainly, counties having the highest percentages of incomplete returns, as Arenac, 11.1; Chippewa, 6.9; Mackinac, 8.6; Menominee, 4.7; Presque Isle, 4.8; Schoolcraft, 7.3; Washtenaw, 6.5; and Wayne, 6.1, ought to show better results. A slight improvement is seen, however, as compared with 1895, which had 480 licenses unreturned, which may be due to the fact that this Department sent out special blanks for the use of county clerks in securing these delinquent returns from clergymen and justices. The penalty of the law for failure or refusal to make returns within ten days has also been printed on all licenses issued, so that it will be prominently presented to persons performing marriage ceremonies.

The marriage license law has now been in operation in Michigan since 1887, and clergymen, magistrates and all concerned in its practical administration should be thoroughly conversant with the duties imposed upon them. This is especially true of persons who receive a fee for performance of the ceremony of marriage, and who supposedly bind themselves to a complete discharge of the duties thereby incurred. One of the most important of these duties from the standpoint of the future legal relations of the persons married is the preservation of an accurate official record, and it may be considered a gross neglect of duty when such record is not made and filed in accordance with the law. For these reasons no hesitation whatever should be felt in promptly prosecuting any clergyman or magistrate who neglects or wilfully refuses to register all marriages performed by him. The State Department endeavors, by tracing each license returned with marriage uncertified, to reduce the number of missing records, but the task is attended with many difficulties.

It may be suggested that a more rigid supervision of the licenses issued might be desirable, in order to secure more accurate records. It would be valuable if each application for license should contain a memorandum of the probable person to perform the ceremony, so that inquiry could be made in case the return was not promptly received. County clerks can request this information at the time of issuing the license, and will find that it will greatly facilitate the accuracy of the records. Also a marriage license might expire by limitation within a reasonable time, say ninety days after issue. We would then be sure that if the license was not returned within that length of time that it could not be used without renewal at the county clerk's office. Of course such renewal should be without fee on the return of the unused license previously granted. As it is, licenses are sometimes kept for years, and their return after a long interval from their date of issue tends to cause many unnecessary inaccuracies in the official records.



**Table 28.**—*Licenses issued on which returns were not made during the year 1896, by counties; with percentage of licenses not returned to licenses returned.*

State and counties.	Licenses returned (marriages).	Licenses not returned.	Per cent of licenses not returned to marriages.	Counties.	Licenses returned (marriages).	Licenses not returned.	Per cent of licenses not returned to marriages.
State .....	18,897	402	2.1	Kent .....	1,049	14	1.3
Alcona .....	42			Keweenaw .....	11		
Alger .....	41	1	2.4	Lake .....	40		
Allegan .....	330	2	.6	Lapeer .....	246	4	1.6
Alpena .....	125	4	3.2	Leelanau .....	62	2	3.2
Antrim .....	106	3	2.8	Lenawee .....	464	1	.2
Arenac .....	63	7	11.1	Livingston .....	182	3	1.6
Baraga .....	38	2	5.3	Luce .....	16		
Barry .....	229			Mackinac .....	58	5	8.6
Bay .....	479	17	3.5	Macomb .....	243	2	.8
Benzie .....	89	3	3.4	Manistee .....	192	2	1.0
Berrien .....	435	3	.7	Marquette .....	306	2	.7
Branch .....	238	3	1.3	Mason .....	119		
Calhoun .....	403	5	1.2	Mecosta .....	161	3	1.9
Cass .....	186	2	1.0	Menominee .....	148	7	4.7
Charlevoix .....	100			Midland .....	88	1	1.1
Cheboygan .....	112	4	3.6	Missaukee .....	47	1	2.1
Chippewa .....	172	12	6.9	Monroe .....	302	5	1.7
Clare .....	61	2	3.3	Montcalm .....	261		
Clinton .....	229	5	2.2	Montmorency .....	19		
Crawford .....	25			Muskegon .....	234	2	.9
Delta .....	154	3	1.9	Newaygo .....	180	1	.6
Dickinson .....	130	3	2.3	Oakland .....	319	6	1.9
Eaton .....	305	4	1.3	Oceana .....	160		
Emmet .....	117	1	.9	Ogemaw .....	42		
Genesee .....	357	4	1.1	Ontonagon .....	36		
Gladwin .....	51	2	3.9	Osceola .....	128	2	1.6
Gogebic .....	133			Oscoda .....	18		
G'd Traverse .....	144			Otsego .....	40		
Gratiot .....	274	2	.7	Ottawa .....	305	3	1.0
Hillsdale .....	256	2	.8	Presque Isle .....	42	2	4.8
Houghton .....	432	1	.2	Roscommon .....	6		
Huron .....	218	3	1.4	Saginaw .....	649	12	1.8
Ingham .....	335	4	1.2	Sanilac .....	249	2	.8
Ionia .....	311	4	1.3	Schoolcraft .....	55	4	7.3
Iosco .....	77	2	2.6	Shiawassee .....	334	5	1.5
Iron .....	19			St. Clair .....	471	10	2.1
Isabella .....	163	2	1.2	St. Joseph .....	266	3	1.1
Jackson .....	447	9	2.0	Tuscola .....	304	2	.7
Kalamazoo .....	406	3	.7	Van Buren .....	288		
Kalkaska .....	52	2	3.8	Washtenaw .....	324	21	6.5
				Wayne .....	2,413	148	6.1
				Wexford .....	136	1	.7

## MARRIAGES BY MONTHS, BY COUNTIES, 1896.

The detailed exhibit by counties and months of marriages returned in 1896 is seen in Table 29. To this table is appended a statement of the facts in regard to marriages of colored persons, which has formerly been presented in a special table. The total number of colored marriages is so small, however, that this table consisted mainly of blank spaces, and it is believed that the data can be better examined in the condensed form here given.

## MARRIAGES BY COUNTIES AND MONTHS

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**Table 29.**—*Distinguishing, by counties and months, the number of marriages returned for the year 1896.*

State and counties.	Year, 1896.	Months, 1896.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
State .....	18,897	1,443	1,271	1,368	1,684	1,361	1,762	1,305	1,238	1,759	1,826	2,028	1,846	6
Alcona .....	42	5	3	5	4	3	1	4	4	4	2	4	3	-----
Alger .....	41	1	2	-----	3	1	3	7	1	8	3	3	9	-----
Allegan .....	330	18	18	38	27	29	31	17	19	26	37	32	38	-----
Alpena .....	125	11	4	5	13	14	9	13	15	10	5	13	13	-----
Antrim .....	106	10	7	8	7	12	10	8	8	9	3	11	13	-----
Arenac .....	63	6	6	4	9	5	2	3	3	7	10	6	2	-----
Baraga .....	38	3	5	2	2	2	8	3	-----	3	2	1	7	-----
Barry .....	229	15	16	22	15	10	17	17	13	25	28	26	25	-----
Bay .....	479	43	36	32	47	26	43	30	40	51	55	42	34	-----
Benzie .....	89	9	3	9	7	3	6	6	11	12	7	9	7	-----
Berrien .....	435	29	41	36	31	27	30	34	33	48	31	51	44	-----
Branch .....	238	20	20	26	22	12	15	17	11	16	23	31	25	-----
Calhoun .....	403	27	21	32	39	21	35	28	26	37	48	37	52	-----
Cass .....	196	18	11	16	10	13	21	15	14	14	20	22	22	-----
Charlevoix .....	100	6	5	7	8	7	10	10	5	12	7	13	10	-----
Cheboygan .....	112	12	4	6	7	6	12	12	14	12	13	7	7	-----
Chippewa .....	172	18	13	11	10	18	8	21	16	19	7	19	12	-----
Clare .....	51	6	3	9	3	4	4	3	3	5	6	3	2	-----
Clinton .....	229	8	17	25	23	14	11	14	18	17	19	30	33	-----
Crawford .....	25	2	1	2	-----	2	3	1	2	2	3	2	5	-----
Delta .....	154	8	5	13	21	11	14	13	9	20	17	14	9	-----
Dickinson .....	130	7	7	5	17	11	13	16	8	11	11	13	11	-----
Eaton .....	305	26	18	26	21	21	26	26	16	30	25	35	35	-----
Emmet .....	117	3	6	7	16	4	10	9	8	14	14	13	13	-----
Genesee .....	357	32	27	33	29	28	25	24	21	27	32	40	39	-----
Gladwin .....	51	3	5	2	2	3	2	2	6	7	8	2	9	-----
Gogebie .....	133	11	17	5	12	12	11	6	12	14	12	15	6	-----
Gr'd.Traverse .....	144	13	6	8	20	9	14	15	11	13	15	3	17	-----
Gratiot .....	274	23	17	21	28	21	13	16	17	33	23	32	30	-----
Hillsdale .....	256	15	16	30	22	17	24	12	12	23	32	27	26	-----
Houghton .....	432	32	20	14	41	40	44	42	42	51	43	41	22	-----
Huron .....	218	15	23	10	11	14	18	15	11	17	25	37	22	-----
Ingham .....	335	26	26	35	26	18	30	19	21	20	37	45	32	-----
Ionia .....	311	25	18	23	24	32	25	24	18	24	22	39	37	-----
Iosco .....	77	6	8	2	10	5	5	5	4	11	2	11	8	-----
Iron .....	19	1	1	1	-----	2	-----	3	2	2	2	2	3	-----
Isabella .....	163	12	12	9	9	7	18	16	13	11	20	15	21	-----
Jackson .....	447	41	22	38	46	33	53	33	24	36	35	47	39	-----
Kalamazoo .....	406	30	24	36	41	25	30	21	21	34	40	54	50	-----
Kalkaska .....	52	3	5	-----	5	3	7	5	6	1	2	7	8	-----
Kent .....	1,049	79	62	79	107	85	100	73	62	76	124	99	103	-----
Keweenaw .....	11	1	1	-----	-----	1	1	2	3	-----	1	-----	1	-----
Lake .....	40	-----	3	4	4	5	5	4	2	1	5	2	5	-----
Lapeer .....	246	18	12	16	23	15	24	9	11	22	26	34	36	-----
Leelanau .....	62	6	6	3	9	1	5	8	4	5	5	4	6	-----
Lenawee .....	464	41	31	48	41	31	43	24	28	37	41	41	58	-----
Livingston .....	182	16	18	19	13	9	9	8	7	20	19	18	26	-----
Luce .....	16	-----	-----	1	2	3	-----	1	2	2	2	2	1	-----
Mackinac .....	58	12	5	6	7	2	5	4	2	6	5	2	2	-----
Macomb .....	243	15	18	20	26	12	17	12	13	21	29	38	22	-----
Manistee .....	192	16	12	9	23	18	24	11	19	23	12	14	11	-----
Marquette .....	306	17	22	13	23	20	27	20	27	40	38	31	28	-----
Mason .....	119	8	11	4	12	12	13	7	10	14	10	13	5	-----
Mecosta .....	161	9	13	14	16	11	16	14	12	10	11	14	21	-----
Menominee .....	148	6	8	8	20	17	16	13	13	11	10	13	11	2
Midland .....	88	7	7	2	7	6	9	6	9	8	13	5	9	-----
Missaukee .....	47	2	4	2	6	4	6	7	1	5	1	3	6	-----
Monroe .....	302	27	18	21	21	21	31	16	20	25	39	33	30	-----
Montcalm .....	261	18	14	28	23	17	21	23	12	16	28	31	30	-----
Montmorency .....	19	1	-----	2	2	-----	4	1	1	1	2	3	2	-----

Table 29.—CONCLUDED.—*Marriages by counties and months, 1896.*

Counties.	Year, 1896.	Months, 1896.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Muskegon.....	234	8	13	15	20	13	31	29	6	25	22	26	26	-----
Newaygo.....	180	8	11	14	21	6	18	17	12	17	15	15	26	-----
Oakland.....	319	35	24	42	22	16	24	23	20	29	24	32	28	-----
Oceana.....	160	11	8	14	12	11	13	12	14	25	8	15	17	-----
Ogemaw.....	42	1	3	5	4	3	3	2	5	2	2	3	9	-----
*Ontonagon.....	36	2	1	1	1	7	2	-----	2	3	5	5	3	4
Osceola.....	128	7	9	12	14	8	12	13	8	10	11	10	14	-----
Oscoda.....	18	-----	1	5	3	1	-----	1	2	1	2	2	-----	-----
Otsego.....	40	2	2	4	5	4	1	3	1	2	6	7	3	-----
Ottawa.....	30E	24	14	19	25	36	35	24	12	24	27	32	33	-----
Presque Isle.....	42	2	1	1	4	3	3	3	1	3	7	10	4	-----
Rosecommon.....	6	-----	-----	-----	-----	4	-----	-----	-----	-----	-----	2	-----	-----
Saginaw.....	649	47	57	35	61	52	64	35	39	56	68	82	53	-----
Sanilac.....	249	18	16	13	21	16	31	13	13	28	30	30	20	-----
Schoolcraft.....	55	2	1	3	10	5	6	5	6	4	1	8	4	-----
Shiawassee.....	334	27	16	28	32	34	26	32	11	30	15	39	44	-----
St. Clair.....	471	44	31	24	36	27	63	32	28	36	38	66	46	-----
St. Joseph.....	266	31	24	24	26	17	17	12	13	28	18	21	35	-----
Tuscola.....	304	32	17	28	23	12	15	18	16	31	37	29	46	-----
Van Buren.....	288	19	16	29	29	13	17	15	18	32	23	43	34	-----
Washtenaw.....	324	31	18	21	23	27	39	23	25	34	30	29	24	-----
Wayne.....	2,413	188	193	106	210	196	289	133	184	244	262	255	153	-----
Wexford.....	136	6	11	13	9	15	16	12	6	16	8	13	11	-----

\* Records burned in court house, Aug. 25, 1896.

## NOTE TO TABLE 29.—COLOR OF PERSONS MARRIED IN MICHIGAN, 1896.

Out of the total of 18,897 marriages returned as having occurred in Michigan during the year 1896, 18,706 were between persons white in color. There were 76 marriages of blacks, 58 of mulattoes, 55 between Indians and 2 of unknown color. The white marriages constitute 98.98 per cent of the total marriages of all colors, a preponderance so great as to render any detailed study of marriages by color in Michigan of very trivial importance. There were 22 marriages of mixed race—the same as the number recorded for the previous year. These are included in the totals, white, black, mulatto, etc., the rule being to classify the marriage according to the color of the groom. When the color is given as "half-breed" or "white and Indian," the case has been included in the number of Indian marriages.

*Black marriages.*—Total for State, 76. By counties:—Wayne, 23; Washtenaw, 8; Jackson, Kalamazoo, each 6; Kent, Oakland, each 5; Ingham, 4; Cass, 3; Allegan, Berrien, Calhoun, Genesee, Van Buren, each 2; Calhoun, Clinton, Lenawee, Muskegon, Oceana, Ottawa, each 1.

*Mulatto marriages.*—Total for State, 58. By counties:—Cass, 12; Washtenaw, Wayne, each 9; Van Buren, 5; Kalamazoo, Kent, each 4; Berrien, 3; Jackson, Mecosta, Midland, each 2; Benzie, Calhoun, Ingham, Manistee, Montcalm, Wexford, each 1.

*Indian marriages.*—Total for State, 55. By counties:—Baraga, 12; Mackinac, 8; Charlevoix, 7; Emmet, Leelanau, each 6; Cass, Cheboygan, Chippewa, Isabella, Mason, Oceana, each 2; Alcona, Delta, Hillsdale, Iosco, each 1.

*Mixed marriages.*—Total for State, 22. Two white males married Indian females, as follows:—Dickinson, Mason, each 1; Seven black males married females of other color, as follows:—White—Calhoun, Oceana, each 1; Mulatto—Calhoun, 1; Kalamazoo, Washtenaw, each 2; Six mulatto males married females of other color as follows:—Black—Calhoun, Midland, Van Buren, each 1; White—Kent, Montcalm, Wexford, each 1. Seven Indians married white females, as follows:—Mackinac, 5; Cheboygan, Hillsdale, each 1.

*Unknown color.*—Calhoun, 2.

## MARRIAGES BY NATIVITY, 1896.

Table 30 exhibits the number and proportion of the bridegrooms and brides of each nativity married in Michigan in 1896. The per cent of native males and females continue high as compared with the years prior to the last period of "hard times," which apparently have had a more markedly restrictive action on the marriages of the foreign than of the native born. In Table 31 the distribution of marriages by general nativity may be compared since the beginning of registration by means of quinquennial periods.

**Table 30.**—*By nativity, the number and per cent of brides and bridegrooms returned for the year 1896.*

Bridegrooms and brides,— nativity specified.		Brides, 1896.			Bridegrooms, 1896.	
		Foreign-born.	Native-born.	Unknown.	Total of each nativity.	Per cent of each nativity.
Bridegrooms..	Foreign-born.....	11,551	1,510	327	13,388	70.8
	Native-born.....	2,353	3,055	79	5,487	29.0
	Unknown.....	9	5	8	22	.1
Brides.....	Total of each nativity.....	13,913	4,570	414	18,897	-----
	Per cent of each nativity..	73.6	24.2	2.2	-----	100.0

**Table 31.**—*Nativity of marriages in Michigan for the year 1896; compared with averages for five successive quinquennial periods, 1871-95.*

Years and periods averaged.	Nativity of marriages,—Per cent of total.				
	Both foreign-born.	Both native-born.	Foreign groom and native bride.	Native groom and foreign bride.	One or both unknown.
Average, 1871-75 .....	59.7	18.5	12.3	7.0	2.6
Average, 1876-80 .....	63.2	14.0	13.3	7.4	2.2
Average, 1881-85 .....	58.2	19.4	12.4	8.7	1.3
Average, 1886-90 .....	56.4	20.3	13.2	8.1	2.0
Average, 1891-95 .....	58.0	18.2	13.2	7.9	2.6
Year 1896 .....	60.5	15.7	13.2	8.1	2.5
Year 1896 .....	61.1	16.2	12.5	8.0	2.3

## AVERAGE AGES AT MARRIAGE BY NATIVITY, 1887-96.

The average ages of bridegrooms and brides married in Michigan are shown, by nativity, for the past ten years in Table 32. The foreign born marry somewhat later than the native born, the reason for which, no doubt, lies to some extent in the loss of time required after arrival in this country to make the necessary preparations and arrange for marriage. The same class of population would probably, normally, show a considerably lower average age at marriage than the native born. Both native and foreign born, males and females, show slightly lower average ages at marriage than those of the preceding year.

**Table 32.**—*The average ages, by nativity and sex, of persons married in Michigan during the years 1887-96; with the mean of the average ages for the ten-year period.*

Years.	All nativities.		Native-born.		Foreign-born.		Unknown nativity.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
1887.....	28.6	23.6	28.2	23.2	29.4	24.5	29.9	23.7
1888.....	29.2	24.4	28.1	23.0	29.3	24.8	30.2	25.5
1889.....	28.2	23.5	27.9	22.9	29.0	24.5	26.3	25.8
1890.....	28.9	24.3	28.1	22.8	29.3	24.6	27.0	25.6
1891.....	28.5	23.6	28.0	23.0	29.3	24.7	29.3	27.3
1892.....	28.5	23.7	28.1	23.2	29.4	24.5	28.9	27.5
1893.....	28.6	23.8	28.1	23.2	29.8	24.8	29.7	28.3
1894.....	29.5	24.5	28.9	23.9	30.9	26.0	34.9	28.0
1895.....	28.6	23.9	28.2	23.3	29.7	25.4	29.3	26.1
1896.....	27.8	24.2	26.7	23.6	30.4	25.6	50.0	28.6
Average, 1887-96 ....	28.6	24.0	28.0	23.2	29.7	24.9	31.6	26.6

## NATIVITY OF MARRIAGES AND PERSONS MARRIED, BY COUNTIES, 1896.

Table 33 displays the distribution of marriages of each nativity and of mixed nativities, together with a statement of those returned with the nativity of either or both parties unstated, for the entire State and for each of its counties. Also the number of persons married of each sex and of each nativity is given for each county. The data in this table may be supplemented by those given in Table 36, which gives the nationalities of the foreign born brides and bridegrooms in detail.

**Table 33.**—*Exhibiting, for the State and counties, (a) the number of marriages, by nativity; and (b) the number of persons married, by nativity and sex, during the year 1896.*

State and counties.	Total marriages, 1896.	(a) Marriages, by nativity, 1896.								(b) Persons married, by nativity, 1896.						
		Both native-born.	Both foreign-born.	Foreign male, native female.	Foreign female, native male.	Female unk.		Male unk.		Both unknown.	Native-born.		Foreign-born.		Un-known.	
						Male.		Fe-male.			Males.	Females.	Males.	Females.	Males.	Females.
State.....	18,897	11,551	3,055	2,353	1,510	327	79	9	5	8	13,388	13,913	5,487	4,570	22	414
Alcona.....	42	12	15	6	9						21	18	21	24		
Alger.....	41	10	17	5	8		1				18	15	23	25		1
Allegan.....	330	277	14	25	10	3	1				290	302	40	24		4
Alpena.....	125	34	44	27	14	2	4				50	61	75	58		6
Antrim.....	106	70	10	19	6	1					77	89	29	16		1
Arenac.....	63	19	11	20	8	4	1				31	39	32	19		5
Baraga.....	38	21	11	6							21	27	17	11		
Barry.....	229	199	3	18	7	1	1				207	217	22	10		2
Bay.....	479	209	104	79	48	28	11				285	288	194	152		39
Benzie.....	89	61	5	10	10	1	2				72	71	17	15		3
Berrien.....	435	327	37	31	20	17	1	1		1	364	359	69	57	2	19
Branch.....	238	211		14	8	5					224	225	14	8		5
Calhoun.....	403	337	15	28	15	7		1			359	366	43	30	1	7
Cass.....	196	171	2	4	3	12	1	2		1	186	177	7	5	3	14
Charlevoix.....	100	58	11	22	9						67	80	33	20		
Cheboygan.....	112	40	22	23	18	6	3				64	63	48	40		9
Chippewa.....	172	28	100	27	16	1					45	55	127	116		1
Clare.....	51	26	4	13	5	3					34	39	17	9		3
Clinton.....	229	203	4	12	7	2	1				212	215	17	11		3
Crawford.....	25	9	4	10	2						11	19	14	6		
Delta.....	154	33	69	28	21	1	2				55	61	99	90		3
Dickinson.....	130	15	88	14	9	2	2				26	29	104	97		4
Eaton.....	305	274	3	10	12	5		1			291	285	13	15	1	5
Emmet.....	117	83	11	16	7						90	99	27	18		
Genesee.....	357	281	8	40	26	1	1				308	321	49	34		2
Gladwin.....	51	31	3	10	7						38	41	13	10		
Gogebic.....	133	17	104	7	5						22	24	111	109		
G'd Traverse.....	144	101	7	18	17	1					119	119	25	24		1
Gratiot.....	274	229	3	25	7	10					246	254	28	10		10
Hillsdale.....	256	222		6		27	1				249	228	7			28
Houghton.....	432	106	233	64	28	1					135	170	297	261		1
Huron.....	218	76	56	50	36						112	126	106	92		
Ingham.....	335	265	19	26	25						290	291	45	44		
Ionia.....	311	252	7	24	17	9	2				278	276	33	24		11
Iosco.....	77	22	16	18	14	6	1				42	40	35	30		7
Iron.....	19	4	10	4	1						5	8	14	11		
Isabella.....	163	122	9	16	16						138	138	25	25		
Jackson.....	447	353	27	33	31	1	2				385	386	62	58		3
Kalamazoo.....	406	336	23	30	16			1			352	367	53	39	1	
Kalkaska.....	52	37	1	9	4		1				41	46	11	5		1
Kent.....	1,049	599	199	137	105	6	2	1			710	737	338	304	1	8
Keweenaw.....	11	4	5	1	1						5	5	6	6		
Lake.....	40	28	2	4	3	2	1				33	32	7	5		3
Lapeer.....	246	168	15	47	15	1					184	215	62	30		1
Leelanau.....	62	40	6	13	3						43	53	19	9		

**Table 33.**—CONCLUDED.—*Marriages by counties and nativity.*

Counties.	Total marriages, 1896.	(a) Marriages, by nativity, 1896.										(b) Persons married, by nativity, 1896.					
		Both native-born.	Both foreign-born.	Foreign male, native female.	Foreign female, native male.	Female unk.		Male unk.		Both unknown.	Native-born.		Foreign-born.		Un-known.		
						Male.	Fe-male.	Males.	Females.		Males.	Females.	Males.	Females.			
Lenawee.....	464	398	10	33	18	4	---	---	1	---	420	431	43	29	1	4	
Livingston.....	182	154	6	8	10	4	---	---	---	---	168	162	14	16	---	4	
Luce.....	16	4	6	5	---	1	---	---	---	---	5	9	11	6	---	1	
Mackinac.....	58	25	14	13	6	---	---	---	---	---	31	38	27	20	---	---	
Macomb.....	243	161	26	25	22	7	2	---	---	---	190	186	53	48	---	9	
Manistee.....	192	84	58	30	20	---	---	---	---	---	104	114	88	78	---	---	
Marquette.....	306	63	151	64	28	---	---	---	---	---	91	127	215	179	---	---	
Mason.....	119	64	28	19	8	---	---	---	---	---	72	83	47	36	---	---	
Mecosta.....	161	112	9	26	14	---	---	---	---	---	126	138	35	23	---	---	
Menominee.....	148	43	68	20	14	2	1	---	---	---	59	63	89	82	---	3	
Midland.....	88	55	6	14	13	---	---	---	---	---	68	69	20	19	---	---	
Missaukee.....	47	16	15	12	3	1	---	---	---	---	20	28	27	18	---	1	
Monroe.....	302	255	5	22	16	4	---	---	---	---	275	277	27	21	---	4	
Montcalm.....	261	202	16	19	13	9	2	---	---	---	224	221	37	29	---	11	
Montmorency..	19	7	8	1	3	---	---	---	---	---	10	8	9	11	---	---	
Muskegon.....	234	130	35	45	23	1	---	---	---	---	154	175	80	58	---	1	
Newaygo.....	180	135	17	15	12	1	---	---	---	---	148	150	32	29	---	1	
Oakland.....	319	229	16	29	19	22	4	---	---	---	270	258	49	35	---	26	
Oceana.....	160	110	9	19	10	12	---	---	---	---	132	129	28	19	---	12	
Ogemaw.....	42	17	11	11	3	---	---	---	---	---	20	28	22	14	---	---	
Ontonagon.....	36	12	9	7	2	1	---	---	---	*5	15	19	16	11	5	6	
Osceola.....	128	68	10	23	12	10	4	1	---	---	90	92	37	22	1	14	
Oscoda.....	18	14	---	2	2	---	---	---	---	---	16	16	2	2	---	---	
Otsego.....	40	15	7	5	2	8	3	---	---	---	25	20	15	9	---	11	
Ottawa.....	305	183	42	48	31	---	1	---	---	---	214	231	91	73	---	1	
Presque Isle..	42	14	5	18	5	---	---	---	---	---	19	32	23	10	---	---	
Roscommon.....	6	3	---	1	1	---	1	---	---	---	4	4	2	1	---	1	
Saginaw.....	649	351	96	111	74	11	3	---	3	---	436	462	210	173	3	14	
Sanilac.....	249	106	54	46	32	6	5	---	---	---	144	152	105	86	---	11	
Schoolcraft....	55	16	22	5	9	3	---	---	---	---	28	21	27	31	---	3	
Shiawassee.....	334	248	15	32	27	11	1	---	---	---	286	280	48	42	---	12	
St. Clair.....	471	220	101	74	70	3	2	---	---	1	293	294	177	171	1	6	
St. Joseph.....	266	242	5	11	8	---	---	---	---	---	250	253	16	13	---	---	
Tuscola.....	304	189	26	51	30	5	2	1	---	---	224	241	79	56	1	7	
Van Buren.....	288	249	5	17	8	8	1	---	---	---	265	266	23	13	---	9	
Washtenaw.....	324	230	18	32	19	21	3	---	1	---	270	262	53	38	1	24	
Wayne.....	2,413	1,021	753	373	265	1	---	---	---	---	1,287	1,394	1,126	1,018	---	1	
Wexford.....	136	86	16	18	9	5	2	---	---	---	100	104	36	25	---	7	

\* Four of these records destroyed by fire.

## MARRIAGES BY NATIONALITY, 1896.

Tables 34, 35 and 36 relate to nationality of persons married in Michigan during the year 1896. These tables are of the same form as Tables 13, 15 and 16 of Part II, which exhibit the corresponding facts in regard to births. By comparing these two groups of tables the fecundity of marriages of different nationalities or combinations of nationalities may be compared as in Table 14, Part II.

## MARRIAGES BY NATIONALITY

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Table 34 is arranged so that the number of persons of each nationality married in Michigan during the year 1896 can be compared with the estimated population of corresponding nationality. There is less variation between the rates for different countries than in the table of corresponding form for births (Table 15, Part II). Some allowance should be made for age distribution of the persons born in each country, as, for example, that of the natives of the United States, which includes a large number of children below the marriageable age. On the other hand, many foreign born immigrants are married before coming to this country, so that their rates are not as high as they otherwise would appear. The corresponding rates for the years 1894-95 are presented for comparison. The distribution of the persons of foreign birth married in the State during the year is given in Table 36.

**Table 34.**—*Number of persons married of each nationality in Michigan during the year 1896, with rates per 1,000 estimated population of like nationality; also corresponding rates for 1894-95.*

Country of birth.	Estimated population, 1896.	Persons married, 1896.	Marriage rate per 1,000 inhabitants of same nationality, 1896.	Marriage rate per 1,000 inhabitants of same nationality, 1895.	Marriage rate per 1,000 inhabitants of same nationality, 1894.
All nationalities.....	2,315,517	37,794	16.3	16.6	16.3
United States.....	1,731,174	27,301	15.8	16.0	15.6
Canada.....	209,963	3,860	18.4	19.5	19.1
England and Wales.....	45,910	698	15.2	16.4	15.8
Scotland.....	11,739	129	11.0	11.7	8.8
Ireland.....	33,299	225	6.8	7.6	8.9
Germany.....	146,831	2,422	16.5	16.5	16.1
Austria.....	5,157	187	36.3	26.5	26.0
Holland.....	34,598	569	16.4	17.5	17.4
Belgium.....	3,210	54	16.8	16.1	14.6
Switzerland.....	3,287	46	14.0	15.2	18.4
Norway.....	8,363	169	20.2	19.4	22.5
Sweden.....	28,613	583	20.4	17.8	22.6
Denmark.....	7,841	123	15.7	14.8	21.0
Russia (including Finland).....	18,284	588	32.2	27.4	34.9
Poland.....	15,214	171	11.2	11.8	8.1
Hungary.....	345	7	20.3	25.5	13.7
Bohemia.....	2,961	22	7.4	10.5	10.2
France.....	1,663	36	21.6	13.3	8.4
Italy.....	3,551	106	29.9	19.9	17.7
All others.....	3,486	62	17.8	16.1	20.0
Unknown.....		436			



Table 35 shows, by a cross-arrangement, the number of males of the most important nationalities returned as having married females of the same or other nationalities in Michigan during the year 1896. Taking as an example the first horizontal line, it appears that 11,551 males born in the United States married females of the same nationality; 848 native born males married Canadian females; 120 married females born in England or Wales; 29 married Scotch; 41 Irish; 323 German, etc. The total number of native born males married, as shown in the

Table 35.—*Intermarriages by*

Males born in—	Females									
	United States.	Canada.	England and Wales.	Scotland.	Ireland.	Germany.	Austria.	Holland.	Belgium.	Switzerland.
United States.....	11,551	848	120	29	41	323	2	68	2	7
Canada.....	1,170	764	29	12	15	23		1		4
England and Wales.....	262	61	83	3	3	10				1
Scotland.....	46	18	8	4	2					
Ireland.....	76	19	7	1	25	2		1		
Germany.....	467	39	5	2	3	713	8	3		6
Austria.....	8	1				7	77			
Holland.....	99	3	1			12		188	1	
Belgium.....	12					2		1	18	
Switzerland.....	11					7	1			4
Norway.....	24					1				
Sweden.....	65	8	2		2	1		1		
Denmark.....	33	1				2				
Russia.....	8					15				
—Finland.....	7					1				
Poland.....	13					23				
Hungary.....	3									
Bohemia.....										
France.....	17	7	2			2				
Italy.....	11	2				3				1
All others.....	21					1				
Unknown.....	9	3	1							
Total females.....	13,913	1,774	258	51	91	1,148	88	263	21	23
Per cent.....	73.6	9.4	1.4	.3	.5	6.1	.5	1.4	.1	.1

## MARRIAGES BY NATIONALITY

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last column on the right, was 13,388, upon which basis the percentage married to each nationality shown in the table may be computed. In like manner, taking the first vertical column, the manner in which the 13,913 females born in the United States and married in Michigan during the year intermarried with other nationalities may be seen. The same facts may be examined for each of the foreign nationalities stated in the left-hand column, by tracing the figures to the right as they intersect the corresponding list of nationalities of females given at the top of the table.

*nationality in Michigan, 1896.*

born in—												Total males.	Per cent.
Nor- way.	Swe- den.	Den- mark.	Rus- sia.	Fin- land.	Po- land.	Hun- gary.	Bohe- mia.	France.	Italy.	All others.	Unk.		
10	22	12	2	4	5	-----	1	4	2	8	327	13,388	70.8
4	5	3	-----	-----	-----	-----	-----	3	-----	2	51	2,086	11.0
1	2	-----	1	-----	1	-----	-----	-----	-----	1	11	440	2.3
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	78	.4
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	3	134	.7
1	1	-----	9	-----	6	-----	-----	-----	-----	1	10	1,274	6.7
-----	-----	-----	1	-----	3	-----	-----	-----	1	1	-----	99	.5
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	1	306	1.6
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	33	.2
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	23	.1
44	11	4	-----	6	-----	-----	-----	-----	-----	-----	-----	90	.5
10	209	2	-----	17	-----	-----	-----	-----	-----	-----	1	318	1.7
4	2	29	-----	-----	-----	-----	1	-----	-----	-----	1	73	.4
-----	-----	-----	34	1	-----	-----	-----	-----	-----	-----	-----	58	.3
4	12	-----	-----	215	-----	-----	-----	-----	-----	-----	-----	239	1.3
-----	-----	-----	1	-----	59	-----	-----	-----	-----	-----	-----	96	.5
-----	-----	-----	-----	-----	-----	2	-----	-----	-----	-----	-----	5	-----
-----	-----	-----	-----	-----	-----	-----	10	-----	-----	-----	-----	10	.1
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	29	.2
-----	-----	-----	-----	-----	-----	-----	-----	-----	43	-----	-----	60	.3
1	1	-----	-----	-----	1	-----	-----	-----	-----	11	-----	36	.2
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	8	22	.1
79	265	50	48	243	75	2	12	7	46	26	414	18,897	-----
.4	1.4	.3	.3	1.3	.4	-----	.1	-----	.2	.1	2.2	-----	100.0

**Table 36.**—*Exhibiting, for the State and counties, the nationalities of foreign born persons married in Michigan during the year 1896.*

State and counties.	Sex.	Total foreign born persons married, 1896.	Canada.	Great Britain.	Ireland.	Germany (Austria).	Holland.	Norway, Sweden and Denmark.	Russia (Finland).	Poland.	All others.*
State.....	{ Total.....	10,057	3,860	827	225	2,609	569	875	588	171	333
	{ Males.....	5,487	2,086	518	134	1,373	306	481	297	96	196
	{ Females.....	4,570	1,774	309	91	1,236	263	394	291	75	137
Alcona.....	{ Total.....	45	36	3	-----	3	-----	3	-----	-----	-----
	{ Males.....	21	16	2	-----	1	-----	2	-----	-----	-----
	{ Females.....	24	20	1	-----	2	-----	1	-----	-----	-----
Alger.....	{ Total.....	48	31	2	-----	3	-----	7	5	-----	-----
	{ Males.....	23	12	2	-----	3	-----	4	2	-----	-----
	{ Females.....	25	19	-----	-----	-----	-----	3	3	-----	-----
Allegan.....	{ Total.....	64	13	8	-----	20	13	9	-----	-----	1
	{ Males.....	40	5	6	-----	13	9	6	-----	-----	1
	{ Females.....	24	8	2	-----	7	4	3	-----	-----	-----
Alpena.....	{ Total.....	133	87	4	1	30	-----	10	-----	-----	1
	{ Males.....	75	50	2	1	15	-----	6	-----	-----	1
	{ Females.....	58	37	2	-----	15	-----	4	-----	-----	-----
Antrim.....	{ Total.....	45	31	3	1	3	1	5	-----	-----	1
	{ Males.....	29	19	3	1	2	1	3	-----	-----	-----
	{ Females.....	16	12	-----	-----	1	-----	2	-----	-----	1
Arenac.....	{ Total.....	51	41	3	1	6	-----	-----	-----	-----	-----
	{ Males.....	32	27	1	1	3	-----	-----	-----	-----	-----
	{ Females.....	19	14	2	-----	3	-----	-----	-----	-----	-----
Baraga.....	{ Total.....	28	5	1	1	2	-----	11	8	-----	-----
	{ Males.....	17	4	1	1	1	-----	6	4	-----	-----
	{ Females.....	11	1	-----	-----	1	-----	5	4	-----	-----
Barry.....	{ Total.....	32	11	8	1	6	4	2	-----	-----	-----
	{ Males.....	22	9	5	1	3	2	2	-----	-----	-----
	{ Females.....	10	2	3	-----	3	2	-----	-----	-----	-----
Bay.....	{ Total.....	346	178	17	4	106	3	10	17	6	5
	{ Males.....	194	102	12	-----	55	2	6	8	4	5
	{ Females.....	152	76	5	4	51	1	4	9	2	-----
Benzie.....	{ Total.....	32	20	-----	-----	1	-----	11	-----	-----	-----
	{ Males.....	17	11	-----	-----	-----	-----	6	-----	-----	-----
	{ Females.....	15	9	-----	-----	1	-----	5	-----	-----	-----
Berrien.....	{ Total.....	126	27	6	5	61	2	6	13	1	5
	{ Males.....	69	15	3	3	32	1	5	5	1	4
	{ Females.....	57	12	3	2	29	1	1	8	-----	1
Branch.....	{ Total.....	22	6	6	1	8	-----	-----	-----	-----	1
	{ Males.....	14	3	5	1	4	-----	-----	-----	-----	1
	{ Females.....	8	3	1	-----	4	-----	-----	-----	-----	-----
Calhoun.....	{ Total.....	73	25	11	5	25	1	1	-----	-----	5
	{ Males.....	43	19	7	3	9	-----	1	-----	-----	4
	{ Females.....	30	6	4	2	16	1	-----	-----	-----	1
Cass.....	{ Total.....	12	3	1	2	5	-----	1	-----	-----	-----
	{ Males.....	7	2	1	2	2	-----	-----	-----	-----	-----
	{ Females.....	5	1	-----	-----	3	-----	1	-----	-----	-----
Charlevoix.....	{ Total.....	53	30	7	4	6	2	2	-----	-----	2
	{ Males.....	33	15	6	4	4	1	2	-----	-----	1
	{ Females.....	20	15	1	-----	2	1	-----	-----	-----	1
Cheboygan.....	{ Total.....	88	59	3	1	14	-----	11	-----	-----	-----
	{ Males.....	48	35	1	-----	6	-----	6	-----	-----	-----
	{ Females.....	40	24	2	1	8	-----	5	-----	-----	-----

\* Includes Belgium, Switzerland, Hungary, Bohemia, France and Italy in addition to the countries included under this title in Table 34.

NATIONALITY OF PERSONS MARRIED, BY COUNTIES 61

**Table 36.**—CONTINUED.—*Nationalities of foreign born persons married in Michigan, 1896.*

Counties.	Sex.	Total foreign born persons married, 1896.	Canada.	Great Britain.	Ireland.	Germany (Austria).	Holland.	Norway, Sweden and Denmark.	Russia (Finland).	Poland.	All others.
Chippewa.....	Total.....	243	194	22	5	9	-----	3	9	-----	1
	Males.....	127	96	14	3	6	-----	2	5	-----	1
	Females.....	116	98	8	2	3	-----	1	4	-----	-----
Clare.....	Total.....	26	25	-----	-----	1	-----	-----	-----	-----	-----
	Males.....	17	16	-----	-----	1	-----	-----	-----	-----	-----
	Females.....	9	9	-----	-----	-----	-----	-----	-----	-----	-----
Clinton.....	Total.....	28	15	2	3	8	-----	-----	-----	-----	-----
	Males.....	17	8	1	2	6	-----	-----	-----	-----	-----
	Females.....	11	7	1	1	2	-----	-----	-----	-----	-----
Crawford.....	Total.....	20	7	2	-----	1	-----	8	-----	-----	2
	Males.....	14	5	2	-----	1	-----	4	-----	-----	2
	Females.....	6	2	-----	-----	-----	-----	4	-----	-----	-----
Delta.....	Total.....	189	74	3	4	14	-----	70	20	-----	4
	Males.....	99	41	2	1	7	-----	37	9	-----	2
	Females.....	90	33	1	3	7	-----	33	11	-----	2
Dickinson.....	Total.....	201	22	17	1	36	1	69	23	-----	32
	Males.....	104	12	10	-----	18	1	34	12	-----	17
	Females.....	97	10	7	1	18	-----	35	11	-----	15
Eaton.....	Total.....	28	12	7	-----	8	-----	-----	1	-----	-----
	Males.....	13	6	2	-----	4	-----	-----	1	-----	-----
	Females.....	15	6	5	-----	4	-----	-----	-----	-----	-----
Emmet.....	Total.....	45	21	2	2	13	-----	6	-----	-----	1
	Males.....	27	15	-----	1	7	-----	3	-----	-----	1
	Females.....	18	6	2	1	6	-----	3	-----	-----	-----
Genesee.....	Total.....	83	54	10	1	15	1	-----	-----	-----	2
	Males.....	49	31	5	1	10	1	-----	-----	-----	1
	Females.....	34	23	5	-----	5	-----	-----	-----	-----	1
Gladwin.....	Total.....	23	18	2	-----	1	-----	2	-----	-----	-----
	Males.....	13	11	1	-----	-----	-----	1	-----	-----	-----
	Females.....	10	7	1	-----	1	-----	1	-----	-----	-----
Gogebic.....	Total.....	220	6	16	-----	32	-----	60	97	3	6
	Males.....	111	4	8	-----	14	-----	33	48	1	3
	Females.....	109	2	8	-----	18	-----	27	49	2	3
G'd Traverse.....	Total.....	49	25	6	2	9	1	4	1	-----	1
	Males.....	25	13	3	1	3	1	3	1	-----	-----
	Females.....	24	12	3	1	6	-----	1	-----	-----	1
Gratiot.....	Total.....	38	30	-----	-----	3	-----	1	1	-----	3
	Males.....	28	23	-----	-----	1	-----	1	1	-----	2
	Females.....	10	7	-----	-----	2	-----	-----	-----	-----	1
Hillsdale.....	Total.....	7	-----	6	-----	-----	-----	1	-----	-----	-----
	Males.....	7	-----	6	-----	-----	-----	1	-----	-----	-----
	Females.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Houghton.....	Total.....	558	97	69	14	84	-----	67	163	14	50
	Males.....	297	55	43	6	43	-----	34	82	7	27
	Females.....	261	42	26	8	41	-----	33	81	7	23
Huron.....	Total.....	198	140	5	2	45	-----	1	1	1	3
	Males.....	106	74	3	-----	25	-----	1	1	-----	2
	Females.....	92	66	2	2	20	-----	-----	-----	1	1
Ingham.....	Total.....	89	27	10	4	43	-----	1	2	-----	2
	Males.....	45	13	6	3	20	-----	1	1	-----	1
	Females.....	44	14	4	1	23	-----	-----	1	-----	1
Ionia.....	Total.....	57	26	7	2	16	-----	2	-----	3	1
	Males.....	33	13	6	2	9	-----	1	-----	1	1
	Females.....	24	13	1	-----	7	-----	1	-----	2	-----

**Table 36.**—CONTINUED.—*Nationalities of foreign born persons married in Michigan, 1896.*

Counties.	Sex.	Total foreign born persons married, 1896.	Can-ada.	Great Brit-ain.	Ire-land.	Ger-many (Aus-tria).	Hol-land.	Nor-way, Swe-den and Den-mark.	Russia (Fin-land).	Pol-land.	All oth-ers.
Iosco.....	Total.....	65	38	4	1	9	-----	8	5	-----	-----
	Males.....	35	21	1	1	5	-----	5	2	-----	-----
	Females.....	30	17	3	-----	4	-----	3	3	-----	-----
Iron.....	Total.....	25	4	1	-----	5	-----	4	8	3	-----
	Males.....	14	3	-----	-----	2	-----	3	4	2	-----
	Females.....	11	1	1	-----	3	-----	1	4	1	-----
Isabella.....	Total.....	50	43	2	2	2	-----	1	-----	-----	-----
	Males.....	25	20	1	2	1	-----	-----	-----	-----	-----
	Females.....	25	23	1	-----	1	-----	-----	-----	-----	-----
Jackson.....	Total.....	120	32	38	5	29	2	4	-----	6	4
	Males.....	62	12	22	2	16	2	2	-----	3	3
	Females.....	58	20	16	3	13	-----	2	-----	3	1
Kalamazoo.....	Total.....	92	12	13	3	16	42	2	2	-----	2
	Males.....	53	9	7	2	11	20	1	-----	-----	2
	Females.....	39	3	6	1	5	22	1	1	-----	-----
Kalkaska.....	Total.....	16	8	4	1	-----	-----	3	-----	-----	-----
	Males.....	11	4	4	1	-----	-----	2	-----	-----	-----
	Females.....	5	4	-----	-----	-----	-----	1	-----	-----	-----
Kent.....	Total.....	642	107	33	24	97	302	45	3	21	10
	Males.....	338	53	16	15	52	159	24	1	10	8
	Females.....	304	54	17	9	45	143	21	2	11	2
Keweenaw.....	Total.....	12	-----	-----	-----	-----	-----	5	7	-----	-----
	Males.....	6	-----	-----	-----	-----	-----	2	4	-----	-----
	Females.....	6	-----	-----	-----	-----	-----	3	3	-----	-----
Lake.....	Total.....	12	8	-----	-----	1	-----	2	-----	-----	1
	Males.....	7	5	-----	-----	-----	-----	1	-----	-----	1
	Females.....	5	3	-----	-----	1	-----	1	-----	-----	-----
Lapeer.....	Total.....	92	67	12	3	8	-----	-----	-----	-----	2
	Males.....	62	43	10	2	6	-----	-----	-----	-----	1
	Females.....	30	24	2	1	2	-----	-----	-----	-----	1
Leelanau.....	Total.....	28	5	-----	-----	3	1	14	-----	3	2
	Males.....	19	4	-----	-----	2	1	8	-----	3	1
	Females.....	9	1	-----	-----	1	-----	6	-----	-----	1
Lenawee.....	Total.....	72	15	14	4	38	-----	-----	-----	-----	1
	Males.....	43	7	10	3	23	-----	-----	-----	-----	-----
	Females.....	29	8	4	1	15	-----	-----	-----	-----	1
Livingston.....	Total.....	30	8	4	3	13	-----	1	-----	-----	1
	Males.....	14	5	2	1	5	-----	1	-----	-----	-----
	Females.....	16	3	2	2	8	-----	-----	-----	-----	1
Luce.....	Total.....	17	11	2	-----	-----	-----	-----	4	-----	-----
	Males.....	11	7	2	-----	-----	-----	-----	2	-----	-----
	Females.....	6	4	-----	-----	-----	-----	-----	2	-----	-----
Mackinac.....	Total.....	47	30	3	2	3	-----	3	3	-----	3
	Males.....	27	16	1	2	2	-----	2	1	-----	3
	Females.....	20	14	2	-----	1	-----	1	2	-----	-----
Macomb.....	Total.....	101	36	8	1	54	-----	-----	-----	-----	2
	Males.....	53	15	5	-----	32	-----	-----	-----	-----	1
	Females.....	48	21	3	1	22	-----	-----	-----	-----	1
Manistee.....	Total.....	166	22	7	-----	49	-----	43	4	40	1
	Males.....	88	11	4	-----	29	-----	22	2	19	1
	Females.....	78	11	3	-----	20	-----	21	2	21	-----
Marquette.....	Total.....	394	73	71	5	24	-----	111	102	-----	8
	Males.....	215	42	43	5	12	-----	54	53	-----	6
	Females.....	179	31	28	-----	12	-----	57	49	-----	2

NATIONALTY OF PERSONS MARRIED, BY COUNTIES

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Table 36.—CONTINUED.—Nationalities of foreign born persons married in Michigan, 1896.

Counties.	Sex.	Total foreign born persons married, 1896.	Canada.	Great Britain.	Ireland.	Germany (Austria).	Holland.	Norway, Sweden and Denmark.	Russia (Finland).	Poland.	All others.
Mason.....	Total.....	83	29	5	---	17	---	26	2	3	1
	Males.....	47	18	4	---	9	---	12	1	2	1
	Females.....	36	11	1	---	8	---	14	1	1	---
Mecosta.....	Total.....	58	38	6	---	6	1	7	---	---	---
	Males.....	35	24	4	---	2	---	5	---	---	---
	Females.....	23	14	2	---	4	1	2	---	---	---
Menominee.....	Total.....	171	69	1	---	41	2	35	4	1	18
	Males.....	89	35	1	---	19	1	20	2	1	10
	Females.....	82	34	---	---	22	1	15	2	---	8
Midland.....	Total.....	39	27	5	---	7	---	---	---	---	---
	Males.....	20	16	1	---	3	---	---	---	---	---
	Females.....	19	11	4	---	4	---	---	---	---	---
Missaukee.....	Total.....	45	18	1	---	4	15	7	---	---	---
	Males.....	27	12	---	---	3	8	4	---	---	---
	Females.....	18	6	1	---	1	7	3	---	---	---
Monroe.....	Total.....	48	9	6	---	25	---	1	---	1	6
	Males.....	27	3	4	---	15	---	1	---	1	3
	Females.....	21	6	2	---	10	---	---	---	---	3
Montcalm.....	Total.....	66	26	3	---	10	---	27	---	---	---
	Males.....	37	15	2	---	5	---	15	---	---	---
	Females.....	29	11	1	---	5	---	12	---	---	---
Montmorency.....	Total.....	20	14	---	1	1	---	2	---	---	2
	Males.....	9	5	---	---	1	---	2	---	---	1
	Females.....	11	9	---	1	---	---	---	---	---	1
Muskegon.....	Total.....	138	34	7	4	19	41	27	4	---	2
	Males.....	80	17	7	2	13	23	16	2	---	---
	Females.....	58	17	---	2	6	18	11	2	---	2
Newaygo.....	Total.....	61	19	3	1	14	7	11	6	---	---
	Males.....	33	8	2	---	6	6	7	3	---	---
	Females.....	29	11	1	1	8	1	4	3	---	---
Oakland.....	Total.....	84	43	15	3	20	---	1	---	---	2
	Males.....	49	25	6	2	14	---	1	---	---	1
	Females.....	35	18	9	1	6	---	---	---	---	1
Oceana.....	Total.....	47	20	5	---	8	2	8	---	---	4
	Males.....	28	11	4	---	5	1	4	---	---	3
	Females.....	19	9	1	---	3	1	4	---	---	1
Ogemaw.....	Total.....	36	31	3	---	2	---	---	---	---	---
	Males.....	22	19	2	---	1	---	---	---	---	---
	Females.....	14	12	1	---	1	---	---	---	---	---
Ontonagon.....	Total.....	27	10	1	1	---	---	4	9	2	---
	Males.....	16	7	1	1	---	---	2	4	1	---
	Females.....	11	3	---	---	---	---	2	5	1	---
Osceola.....	Total.....	59	34	3	1	10	---	11	---	---	---
	Males.....	37	22	3	1	5	---	6	---	---	---
	Females.....	22	12	---	---	5	---	5	---	---	---
Oscoda.....	Total.....	4	3	---	---	1	---	---	---	---	---
	Males.....	2	2	---	---	---	---	---	---	---	---
	Females.....	2	1	---	---	1	---	---	---	---	---
Otsego.....	Total.....	24	12	---	---	8	---	---	3	---	1
	Males.....	15	9	---	---	2	---	---	3	---	1
	Females.....	9	3	---	---	6	---	---	---	---	---
Ottawa.....	Total.....	164	16	6	---	17	118	1	---	---	6
	Males.....	91	11	4	---	10	62	1	---	---	3
	Females.....	73	5	2	---	7	56	---	---	---	3

**Table 36.**—CONCLUDED.—*Nationalities of foreign born persons married in Michigan, 1896.*

Counties.	Sex.	Total foreign born persons married, 1896.	Can-ada.	Great Brit-ain.	Ire-land.	Ger-many (Aus-tria).	Hol-land.	Nor-way, Swe-den and Den-mark.	Russia (Fin-land).	Po-land.	All oth-ers.
Presque Isle.	Total .....	33	9	1	-----	20	-----	-----	1	2	-----
	Males .....	23	6	1	-----	14	-----	-----	1	1	-----
	Females .....	10	3	-----	-----	6	-----	-----	-----	1	-----
Roscommon.	Total .....	3	2	1	-----	-----	-----	-----	-----	-----	-----
	Males .....	2	1	1	-----	-----	-----	-----	-----	-----	-----
	Females .....	1	1	-----	-----	-----	-----	-----	-----	-----	-----
Saginaw .....	Total .....	383	176	28	5	132	-----	4	8	15	15
	Males .....	210	95	20	4	66	-----	3	4	9	9
	Females .....	173	81	8	1	66	-----	1	4	6	6
Sanilac .....	Total .....	191	163	8	2	17	-----	1	-----	-----	-----
	Males .....	105	88	8	1	7	-----	1	-----	-----	-----
	Females .....	86	75	-----	1	10	-----	-----	-----	-----	-----
Schoolcraft.	Total .....	58	20	1	-----	10	-----	17	9	-----	1
	Males .....	27	8	1	-----	5	-----	9	4	-----	-----
	Females .....	31	12	-----	-----	5	-----	8	5	-----	1
Shiawassee.	Total .....	90	41	16	2	26	1	1	-----	-----	3
	Males .....	48	23	11	1	11	-----	1	-----	-----	1
	Females .....	42	18	5	1	15	1	-----	-----	-----	2
St. Clair .....	Total .....	348	284	19	9	28	-----	7	-----	-----	1
	Males .....	177	141	14	4	14	-----	4	-----	-----	-----
	Females .....	171	143	5	5	14	-----	3	-----	-----	1
St. Joseph .....	Total .....	29	3	5	-----	19	-----	-----	-----	-----	2
	Males .....	16	2	3	-----	10	-----	-----	-----	-----	1
	Females .....	13	1	2	-----	9	-----	-----	-----	-----	1
Tuscola .....	Total .....	135	112	7	1	13	-----	-----	-----	-----	2
	Males .....	79	66	4	-----	9	-----	-----	-----	-----	-----
	Females .....	56	46	3	1	4	-----	-----	-----	-----	2
Van Buren .....	Total .....	36	8	15	1	8	2	-----	1	-----	1
	Males .....	23	7	9	-----	4	1	-----	1	-----	1
	Females .....	13	1	6	1	4	1	-----	-----	-----	-----
Washtenaw.	Total .....	91	22	13	5	45	-----	1	-----	-----	5
	Males .....	53	11	10	3	24	-----	1	-----	-----	4
	Females .....	38	11	3	2	21	-----	-----	-----	-----	1
Wayne .....	Total .....	2,144	625	155	68	1,092	4	17	42	46	95
	Males .....	1,126	303	93	41	569	3	12	22	30	53
	Females .....	1,018	322	62	27	523	1	5	20	16	42
Wexford .....	Total .....	61	28	3	-----	1	-----	29	-----	-----	-----
	Males .....	36	19	1	-----	1	-----	15	-----	-----	-----
	Females .....	25	9	2	-----	-----	-----	14	-----	-----	-----

## MARRIAGES BY PERIODS OF AGE AND CIVIL CONDITION, 1896.

Table 37, showing the arrangement of marriages according to the periods of age of the contracting parties by civil condition, may require a word of explanation as to manner of reading. Taking the first part as an illustration, and reading down the vertical columns, beginning with the left upper corner, we see that 288 females under 20 years of age married males under 20; 3,226 females under 20 married males aged from 20 to 24 years, etc. The total number of females married under 20 years of age was 5,496, which number was 29.1 per cent of all females married. The corresponding facts in regard to males of each age may be noted by reading the horizontal lines of the table. The largest number of marriages took place between males aged from 20 to 24 and females of the same period of age.

# MARRIAGES BY PERIODS OF AGE AND CIVIL CONDITION 65

The second part of the table showing the distribution of first marriages includes a total of 14,863 couples, or 78.7 per cent of the total number of marriages during the year. Although including so large a proportion of marriages, the distribution by ages is seen to be much narrower, the marriages massing in the early age periods. For this reason the tables formerly given in these Reports (corresponding to the first part of the present Table 37) were not at all representative of the mode of union, by ages, of by far the most important constituent of the Michigan marriage rate, namely, couples in which both bride and groom were married for the first time. The same difference is brought out forcibly on comparing the percentages married at each age period in the two parts of the table. The proportion of males married between the ages of 20 and 24 rises from 37.2 per cent, representing all civil conditions, to 45.6 per cent for first marriages; for females it rises from 40.7 per cent for all civil conditions at the period, 20 to 24, to 46.2 per cent for the first marriages at the same period of age.

More bachelors, aged from 25 to 29 years, married widows than at any other period of age (32.5 per cent); the widows wedded by them were also more numerous at the same age period (28.1 per cent). The largest percentage of widowers who married spinsters (23.5 per cent) was at the years 30 to 34; their brides were about 10 years younger for the most part (33.3 per cent aged 20 to 24 years).

**Table 37.**—*Marriages in Michigan during the year 1896, by periods of age and civil condition of persons married; showing also the number and percentage of each sex married at each period of age.*

## I.—Aggregate of all civil conditions.

Ages of males, 1896.	Ages of females, 1896.															Total males.	Per cent of males at each age.
	Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.		
Under 20.....	288	53	4	1	—	—	—	—	—	—	—	—	—	—	—	346	1.8
20 to 24.....	3,226	3,446	319	25	6	2	1	—	1	—	—	—	—	—	3	7,029	37.2
25 to 29.....	1,514	2,823	1,317	177	41	3	4	1	—	—	1	—	—	—	1	5,882	31.1
30 to 34.....	296	866	685	323	82	19	5	1	—	—	1	—	—	—	1	2,279	12.1
35 to 39.....	110	333	330	235	165	47	14	1	1	—	1	—	—	—	1	1,238	6.6
40 to 44.....	29	95	118	113	128	98	26	4	3	—	1	—	—	—	—	615	3.3
45 to 49.....	22	36	75	90	114	76	65	20	6	3	—	—	—	—	1	508	2.7
50 to 54.....	4	21	18	39	64	51	60	60	13	8	—	1	—	—	—	339	1.8
55 to 59.....	6	7	10	12	26	39	50	47	26	9	4	—	—	—	1	237	1.3
60 to 64.....	—	2	4	5	11	18	33	31	30	30	3	—	—	—	—	167	.9
65 to 69.....	1	2	3	1	6	11	21	28	21	24	20	3	—	1	—	142	.8
70 to 74.....	—	—	1	1	—	5	8	7	17	8	8	6	1	—	—	62	.3
75 to 79.....	—	—	—	—	1	1	2	3	3	10	7	3	1	—	—	31	.2
80 and over.....	—	1	—	—	—	—	1	1	2	1	1	3	2	1	—	13	.1
Unknown.....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9	9	—
Total females.....	5,496	7,685	2,884	1,022	644	370	290	204	123	93	47	16	4	2	17	18,897	—
Per cent.....	29.1	40.7	15.3	5.4	3.4	2.0	1.5	1.1	.7	.5	.2	.1	—	—	.1	—	100.0



**Table 37.**—CONTINUED.—*Marriages in Michigan, 1896, by periods of age of persons married.**II.—First marriage of both parties.*

Under 20.....	288	51	1															340	2.3
20 to 24.....	3,189	3,311	262	12	1				1									6,778	45.6
25 to 29.....	1,381	2,601	1,122	100	11												1	5,216	35.1
30 to 34.....	217	659	506	175	24	5	3	1										1,590	10.7
35 to 39.....	58	200	185	107	53	7	1		1								1	613	4.1
40 to 44.....	13	38	39	33	30	21	2											176	1.2
45 to 49.....	8	8	17	14	9	12	3	3										74	.5
50 to 54.....	3	3	3	4	15	1	4	4										37	.3
55 to 59.....	2	1	1		3	2	4	1									1	15	.1
60 to 64.....						2	1			1								4	
65 to 69.....						2	4				1							7	
70 to 74.....			1				1	1										3	
75 to 79.....										1	1							2	
Unknown.....																	8	8	.1
Total females.....	5,159	6,872	2,137	445	146	52	23	10	2	2	2						13	14,863	
Per cent.....	34.7	46.2	14.4	3.0	1.0	.3	.2	.1									.1		100.0

*III.—First marriage of male; second or subsequent marriage of female.*

Ages of males, 1896.	Ages of females, 1896.															Total males.	Per cent of males at each age.
	Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.		
Under 20.....		1	3	1												5	.5
20 to 24.....	10	86	49	12	4	2	1									164	17.7
25 to 29.....	12	81	119	59	23	2	4	1								301	32.5
30 to 34.....	1	27	52	59	31	9					1					180	19.5
35 to 39.....		6	22	38	42	21	8				1					138	14.9
40 to 44.....		2	10	14	18	18	8	1								71	7.7
45 to 49.....		1	3	3	7	10	6	3	1	1					1	36	3.9
50 to 54.....			1		3		1	8				1				15	1.6
55 to 59.....				1		2	3		2		1					9	1.0
60 to 64.....				1			1	1								3	.3
65 to 69.....							1			1						2	.2
70 to 74.....										1						1	.1
Total females.....	23	205	260	187	128	64	33	14	3	3	3	1			1	925	
Per cent.....	2.5	22.2	28.1	20.2	13.8	6.9	3.6	1.5	.3	.3	.3	.1			.1		100.0

## MARRIAGES BY PERIODS OF AGE AND CIVIL CONDITION 67

**Table 37.**—CONCLUDED.—*Marriages in Michigan, 1896, by periods of age of persons married.*
*IV.—Second or subsequent marriage of male; first marriage of female.*

Under 20.....		1																1	.1	
20 to 24.....	24	36	7															1	68	4.4
25 to 29.....	117	132	47	9	2														307	19.8
30 to 34.....	75	155	86	38	9	1												1	365	23.5
35 to 39.....	52	107	81	43	27	5													315	20.3
40 to 44.....	15	47	47	27	18	14	1												169	10.9
45 to 49.....	13	16	34	33	32	10	7	2											147	9.4
50 to 54.....	1	14	13	16	18	13	4	3	1										83	5.3
55 to 59.....	4	5	4	5	10	6	3	5	2										44	2.8
60 to 64.....		2	2	4	4	8	3	3		1									27	1.7
65 to 69.....	1	1	1	1	4	1	2	2											13	.8
70 to 74.....				1		2	1	1	1	1		1							8	.5
75 to 79.....									1	2									3	.2
80 and over.....		1																	1	.1
Unknown.....																		1	1	.1
Total females.....	302	517	322	177	124	60	21	16	5	4		1						3	1,552	
Per cent.....	19.5	33.3	20.7	11.4	8.0	3.9	1.4	1.0	.3	.3		.1						.2		100.0

*V.—Second or subsequent marriage of both parties.*

Ages of males, 1896.	Ages of females, 1896.																Total males,	Per cent of males at each age.
	Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.			
Under 20.....																		
20 to 24.....	3	13	1	1	1												19	1.2
25 to 29.....	4	9	29	9	5	1						1					58	3.7
30 to 34.....	3	25	41	51	18	4	2										144	9.2
35 to 39.....		20	42	47	43	14	5	1									172	11.0
40 to 44.....	1	8	22	39	62	45	15	3	3		1						199	12.8
45 to 49.....	1	11	21	40	66	44	49	12	5	2							251	16.1
50 to 54.....		3	1	19	28	37	48	48	15	5							204	13.1
55 to 59.....		1	5	6	13	29	40	41	22	9	3						169	10.9
60 to 64.....				1	1	7	8	28	27	30	28	3					133	8.5
65 to 69.....		1	2		2	8	17	23	18	26	19	3		1			120	7.7
70 to 74.....						3	6	5	16	6	8	5	1				50	3.2
75 to 79.....					1	1	2	3	2	7	6	3	1				26	1.7
80 and over.....							1	1	2	1	1	3	2	1			12	.8
Total females.	12	91	165	213	246	194	213	164	113	84	42	14	4	2			1,557	
Per cent.....	.8	5.8	10.6	13.7	15.8	12.5	13.7	10.5	7.3	5.4	2.7	.9	.3	.1				100.0

## NUMBER OF TIMES MARRIED.

In connection with Table 37, Table 38 showing in cross-arrangement the number of persons of each sex married for the first, second, third time, etc., is presented. Of the 18,897 males married in 1896, 15,788 or 83.5 per cent, were married for the first time; 16,415 females, 86.9 of the total number, were married for the first time. One man had been married six times and one five times before their marriages in 1896. Three women had been married four times before their marriages in 1896.

**Table 38.**—*Distinguishing, by sex, the number of first marriages, second marriages, etc., performed in Michigan during the year 1896.*

Times married,—males.	Times married,—females.					Total males.	Per cent.
	First.	Second.	Third.	Fourth.	Fifth.		
First marriage.....	14,863	887	35	1	2	15,788	83.5
Second marriage.....	1,449	1,161	127	10	.....	2,747	14.5
Third marriage.....	95	164	56	4	.....	319	1.7
Fourth marriage.....	8	23	6	.....	.....	37	.2
Fifth marriage.....	.....	2	2	.....	.....	4	.....
Sixth marriage.....	.....	1	.....	.....	.....	1	.....
Seventh marriage.....	.....	.....	.....	.....	1	1	.....
Total females.....	16,415	2,238	226	15	3	18,897	.....
Per cent.....	86.9	11.8	1.2	.1	.....	.....	100.0

**Table 39.**—*Persons married in Michigan under the legal ages, 1887-96.*

Years.	Total males under legal age.	Ages of males under 18 years.		Total females under legal age.	Ages of females under 16 years.			
		16.	17.		12.	13.	14.	15.
1887.....	6	1	5	97	.....	2	19	76
1888.....	.....	.....	.....	26	.....	.....	5	21
1889.....	.....	.....	.....	19	1	.....	.....	18
1890.....	.....	.....	.....	12	.....	.....	2	10
1891.....	2	1	1	10	.....	1	.....	9
1892.....	1	.....	1	11	.....	.....	1	10
1893.....	2	1	1	12	.....	.....	2	10
1894.....	1	.....	1	9	.....	.....	1	8
1895.....	4	2	2	8	.....	.....	1	7
1896.....	.....	.....	.....	3	.....	.....	.....	3
Total ten years, 1887-96.....	2	1	1	21	.....	.....	3	17

## PERSONS MARRIED UNDER THE LEGAL AGES, 1896.

Only 3 females were returned as having been married under the legal ages during the year 1896 in Michigan. This is the best showing that has ever been given in these Reports. Much of the credit for the same is due to the statement of age required to be made to the county clerk previous to the issue of a license to marry under the present law, and while it cannot be unquestionably asserted that the law is never evaded by means of incorrect statements of age, it is true without doubt that the number of persons annually married below the legal ages has markedly decreased within the last few years. Prior to 1887 upwards of a hundred females were annually returned as having been married under the age of sixteen years, although then as now severe penalties were contained in the statutes for the punishment of any person solemnizing such marriages.

## EFFECT OF LAW REQUIRING PARENTAL CONSENT TO CERTAIN MARRIAGES.

On August 30, 1895, the law requiring the written consent of one parent or of the legal guardian, if any, to the marriage of any female under the age of 18 years went into effect. In Table 40 are given certain data suggestive of the probable changes in marriage ages resulting from the new law. The total number of girls married in 1894, the year before the law went into effect, at the ages of 16, 17 and 18, was 3,802. For 1895, including five months of required parental consent, the total number of girls married at those ages was almost identical, viz., 3,819. The distribution in the latter year, however, was quite different, the ages 16 and 17 having lost while the age 18 gained in number. This is quite what might have been expected under the law, which tends to defer marriage until the eighteenth year. The figures for 1896 are quite similar, showing a very marked diminution in the numbers married at ages 16 and 17. The total number married under 18 years of age was 3,565. This is the first complete year under the operation of this law.

**Table 40.**—*Showing number of females married in Michigan at each year of age under 20 during the years 1894-96.*

Years.	Ages in years.					
	14.*	15.*	16.†	17.†	18.	19.
1894.....	1	8	710	1,076	2,016	1,858
1895.....	1	7	654	1,020	2,145	1,897
1896.....		3	550	770	2,242	1,864

\* Marriages of females at these ages were illegal.

† Beginning August 30, 1895, the written consent of one of the parents or of the guardian is required to be filed in the office of the county clerk prior to the issue of a license to marry to a female under eighteen years of age.

## MARRIAGES BY PERIODS OF AGE, 1871-96.

In Tables 41 and 42, the distribution of the persons of each sex married in 1896, by five-year periods of age, as shown in Table 37, preceding, is compared with the quinquennial averages since the beginning of registration. The changes in the selection of marriage ages are more marked in the females than in the males, although both show higher per cents at advanced ages than in the early years of registration. Thus, comparing 1896 with the average of the five years, 1871-75, 37.2 per cent of all males married in the latter year between the ages of 20 and 24 years, against 41.2 per cent in the former period. Of all females married, 36.9 per cent were married under 20 years of age in 1871-75, as compared with only 29.1 per cent at that period in 1896; above 20 years, the periods frequently show increased percentages for 1895.

Table 43 shows the distribution of persons married, by periods of age, through the counties of the State during the year 1896.

**Table 41.**—*Percentage of males married in Michigan, at specified periods of age, for the years 1895-96; compared with averages for five quinquennial periods.*

Years and periods averaged.	Ages of males, by periods of years, married 1871-96.														
	Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.
Average, 1871-75....	2.6	41.2	29.5	10.6	5.5	3.3	2.3	1.7	1.0	.8	.5	.3	.1	....	.6
Average, 1876-80....	2.6	40.8	29.8	10.8	5.6	3.2	2.2	1.6	1.1	.8	.5	.3	.1	....	.5
Average, 1881-85....	2.3	39.5	30.7	11.4	5.7	3.2	2.2	1.6	1.0	.9	.5	.3	.1	....	.4
Average, 1886-90....	2.1	37.7	32.4	12.2	5.7	3.0	2.4	1.5	1.1	.8	.6	.3	.1	....	.1
Average, 1891-95....	1.9	38.1	30.8	12.7	6.0	3.2	2.3	1.7	1.2	.9	.7	.3	.1	....	....
Year 1895.....	1.9	37.2	31.2	12.9	6.2	3.0	2.3	1.9	1.2	.9	.7	.3	.1	....	....
Year 1896.....	1.8	37.2	31.1	12.1	6.6	3.3	2.7	1.8	1.3	.9	.8	.3	.2	.1	....

**Table 42.**—*Percentage of females married in Michigan, at specified periods of age, for the years 1895-96; compared with averages for five quinquennial periods.*

Years and periods averaged.	Ages of females, by periods of years, married 1871-96.														
	Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.
Average, 1871-75....	36.9	36.5	12.7	5.0	3.0	2.0	1.3	.8	.5	.3	.2	....	....	....	.9
Average, 1876-80....	37.4	37.4	11.7	4.7	3.1	1.9	1.3	.8	.5	.3	.2	....	....	....	.7
Average, 1881-85....	33.8	38.7	13.7	4.9	3.1	1.9	1.3	.8	.5	.3	.2	.1	....	....	.6
Average, 1886-90....	32.8	39.5	14.2	5.2	2.9	1.9	1.3	.9	.6	.4	.2	.1	....	....	.2
Average, 1891-95....	30.8	40.6	14.3	5.3	3.1	2.0	1.4	1.0	.6	.5	.2	.1	....	....	....
Year 1895.....	30.2	40.6	15.1	5.1	3.0	2.0	1.4	1.1	.6	.5	.2	.1	....	....	....
Year 1896.....	29.1	40.7	15.3	5.4	3.4	2.0	1.5	1.1	.7	.5	.2	.1	....	....	.1

**Table 43.**—*Exhibiting, for the State and counties, the number of persons married, by sex and periods of age, during the year 1896.*

State and counties.	Total marriages, 1896.	Sex.	Number of persons married, by periods of age, 1896.																	80 +	Total.
			Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.						
State.....	18,897	Total..... Males..... Females.....	5,842 346 5,496	14,714 7,029 7,685	8766 5882 2884	3301 2279 1022	1882 1238 644	985 615 370	798 508 290	543 339 204	360 237 123	260 167 93	189 142 47	78 62 16	35 31 4	15 13 2	26 9 17				
Alcona.....	42	Total..... Males..... Females.....	19 1 18	28 11 17	18 15 3	10 9 1	2 2 1	1 1 1	2 1 2	2 1 2	1 1 1	1 1 1									
Alger.....	41	Total..... Males..... Females.....	18 18 18	24 13 11	21 15 6	10 5 5	4 4 5	3 2 1	3 1 1	1 1 1											
Allegan.....	330	Total..... Males..... Females.....	122 15 107	237 117 120	156 110 46	56 34 22	26 15 11	24 15 9	12 6 6	10 7 3	3 1 2	5 3 2	4 3 2	4 2 2	4 4 1	1 1 1					
Alpena.....	125	Total..... Males..... Females.....	52 2 50	81 41 40	48 32 16	33 28 5	11 6 5	12 7 5	6 4 5	5 3 2	1 1 2	1 1 1									
Antrim.....	106	Total..... Males..... Females.....	46 1 45	69 38 31	41 29 12	23 16 7	17 11 6	7 5 2	3 1 3	5 4 1	1 1 1										
Arenac.....	63	Total..... Males..... Females.....	31 1 30	41 24 17	20 14 6	12 8 4	7 6 1	3 3 1	3 3 2	4 2 1	1 1 1	2 1 1	1 1 1				1				
Baraga.....	38	Total..... Males..... Females.....	13 7 13	27 14 13	14 10 4	7 5 2	7 4 3	5 3 2	1 1 1	1 1 1	2 1 1										
Barry.....	229	Total..... Males..... Females.....	72 7 65	172 86 86	114 70 44	36 23 13	22 17 5	5 3 2	11 9 2	12 6 6	6 3 3	6 3 3	2 2 3								
Bay.....	479	Total..... Males..... Females.....	147 7 140	412 190 222	207 150 57	71 56 15	41 25 16	20 11 9	24 17 7	15 11 4	6 7 4	7 4 3	4 3 1	3 3 1	1 1 1		1				
Benzie.....	89	Total..... Males..... Females.....	37 4 33	59 27 32	42 31 11	15 13 2	13 7 6	3 2 1	1 2 1	5 3 2	1 1 2		2 1 1								
Berrien.....	435	Total..... Males..... Females.....	126 10 116	339 159 180	205 139 66	72 43 29	56 36 20	19 15 4	20 12 8	16 10 6	8 4 4	1 1 1	4 1 4		1 1 1	3 1 2					
Branch.....	238	Total..... Males..... Females.....	80 8 72	180 95 85	93 59 34	39 27 12	29 13 16	19 11 8	9 8 1	6 5 2	10 5 5	7 5 2	3 2 1	1 1 1							
Calhoun.....	403	Total..... Males..... Females.....	123 15 108	285 131 154	181 124 57	76 48 28	49 26 23	24 14 10	20 12 8	13 7 2	10 9 2	12 9 3	9 6 1	5 4 1	1 1 1		1				
Cass.....	196	Total..... Males..... Females.....	71 4 67	138 75 63	77 54 23	31 19 12	23 10 13	12 6 6	15 9 6	19 15 4	2 1 2	4 2 2									
Charlevoix.....	100	Total..... Males..... Females.....	33 3 33	71 38 35	32 22 10	20 14 6	15 12 3	4 2 2	6 3 3	7 3 4	5 2 2	2 1 1	1 1 1	2 1 1			2				
Cheboygan.....	112	Total..... Males..... Females.....	44 1 43	85 44 41	52 36 16	16 13 3	17 11 6	2 1 1	2 2 1	1 1 1	1 1 1	2 1 1	1 1 1								
Chippewa.....	172	Total..... Males..... Females.....	39 1 38	121 44 77	100 71 29	39 26 13	28 10 3	5 2 3	8 6 2	1 1 2	2 2 2		1 1 1								



PERSONS MARRIED BY PERIODS OF AGE, BY COUNTIES 73

Table 43.—CONTINUED.—Number of persons married, by sex and periods of age.

Counties.	Total mar- riages, 1896.	Sex.	Number of persons married, by periods of age, 1896.																
			Un- der 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 to 84.	Unk.		
Iron	19	Total	7	10	13	4	3	1											
		Males		4	10	2	2	1											
		Females	7	6	3	2	1												
Isabella	163	Total	84	130	58	18	16	4	5	4	2	2	3						
		Males	7	78	38	14	11	3	5	2	1	2	2						
		Females	77	52	20	4	5	1		2	1		1						
Jackson	447	Total	111	357	211	84	50	32	18	10	9	5	3	1	2	1			
		Males	9	169	131	50	35	16	16	6	7	3	3		2				
		Females	102	188	80	34	15	16	2	4	2	2		1		1			
Kalamazoo	406	Total	94	331	191	59	41	31	24	17	7	7	5	4		1			
		Males	7	158	118	38	24	20	15	11	2	5	5	2		1			
		Females	87	173	73	21	17	11	9	6	5	2		2					
Kalkaska	52	Total	18	32	23	4	8	3	7	2	2	3			1	1			
		Males		18	14	2	6	2	4	1	1	3				1			
		Females	18	14	9	2	2	1	3	1	1				1				
Kent	1,049	Total	282	821	479	188	128	64	51	30	24	14	12	3	1	1			
		Males	17	392	317	122	74	37	36	15	17	8	9	3	1	1			
		Females	265	429	162	66	54	27	15	15	7	6	3						
Keweenaw	11	Total	8	6	6		1	1											
		Males	1	3	5		1	1											
		Females	7	3	1														
Lake	40	Total	16	24	22	4	3	4	4		1	1				1			
		Males	1	14	15	3		2	3		1					1			
		Females	15	10	7	1	3	2	1			1							
Lapeer	246	Total	85	171	118	37	33	17	6	7	9	4			1	3	1		
		Males	5	86	71	27	23	12	5	5	6	1			1	3	1		
		Females	80	85	47	10	10	5	1	2	3	3							
Leelanau	62	Total	24	52	20	14	7	4	2						1				
		Males	1	25	14	10	6	3	2						1				
		Females	23	27	6	4	1	1											
Lenawee	464	Total	129	368	202	71	46	28	21	28	10	13	9			1	2		
		Males	8	181	131	41	33	15	12	19	8	7	7			1	1		
		Females	121	187	71	30	13	13	9	9	2	6	2				1		
Livingston	182	Total	44	143	81	35	28	11	9	5	1	3	1	1	2				
		Males	6	59	53	21	18	9	6	4	1	3		1	1				
		Females	38	84	28	14	10	2	3	1			1		1				
Luce	16	Total	3	10	12	2		2	3										
		Males		5	6	1		1	3										
		Females	3	5	6	1		1											
Mackinac	58	Total	26	43	30	7	4	3	1	1	1								
		Males		23	22	6	3	2	1		1								
		Females	26	20	8	1	1	1		1									
Macomb	243	Total	64	206	127	34	22	10	7	4	1	4	3	1	2	1			
		Males	1	101	78	27	16	5	3	3	1	1	3	1	2	1			
		Females	63	105	49	7	6	5	4	1		3							
Manistee	192	Total	57	157	90	31	20	12	7	3	2	2	3						
		Males	1	87	69	23	15	7	2	2	2	1	3						
		Females	56	90	21	8	5	5	5	1		1							
Marquette	306	Total	80	239	162	69	36	12	6	5	2	1							
		Males	4	105	106	50	21	12	4	2	1	1							
		Females	76	134	56	19	15		2	3	1								
Mason	119	Total	47	99	46	22	9	3	7	2	1	2							
		Males	4	50	33	17	4	3	5	1	1	1							
		Females	43	49	13	5	5		2	1		1							



**Table 43.**—CONTINUED.—*Number of persons married, by sex and periods of age.*

Counties.	Total marriages, 1896.	Sex.	Number of persons married, by periods of age, 1896.															
			Under 20.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +.	Unk.	
Mecosta.....	161	Total.....	71	109	72	23	15	7	6	9	4	1	3	1	1	..	..	
		Males.....	2	60	53	16	10	4	2	7	3	..	2	1	1	..	..	
		Females.....	69	49	19	7	5	3	4	2	1	1	1	..	..	..	..	
Menominee.....	148	Total.....	57	110	68	32	11	7	2	3	3	3	..	..	..	..	..	
		Males.....	..	54	47	26	10	5	..	2	3	1	..	..	..	..	..	
		Females.....	57	56	21	6	1	2	2	1	..	2	..	..	..	..	..	
Midland.....	88	Total.....	48	65	23	13	4	5	10	3	2	2	1	..	..	..	..	
		Males.....	1	39	20	11	1	1	8	3	2	1	1	..	..	..	..	
		Females.....	47	26	3	2	3	4	2	..	..	1	..	..	..	..	..	
Missaukee.....	47	Total.....	15	37	18	10	9	3	2	..	..	..	..	..	..	..	..	
		Males.....	..	18	12	7	6	3	1	..	..	..	..	..	..	..	..	
		Females.....	15	19	6	3	3	..	1	..	..	..	..	..	..	..	..	
Monroe.....	302	Total.....	89	262	140	38	26	16	17	6	5	..	3	2	..	..	..	
		Males.....	2	132	93	26	18	10	9	4	3	..	3	2	..	..	..	
		Females.....	87	130	47	12	8	6	8	2	2	..	..	..	..	..	..	
Montcalm.....	261	Total.....	127	182	93	36	26	14	7	8	12	9	7	1	..	..	..	
		Males.....	9	108	63	26	16	10	5	3	9	7	5	..	..	..	..	
		Females.....	118	74	30	10	10	4	2	5	3	2	2	1	..	..	..	
Montmorency..	49	Total.....	9	12	9	4	2	..	2	..	..	..	..	..	..	..	..	
		Males.....	..	9	4	4	1	..	1	..	..	..	..	..	..	..	..	
		Females.....	9	3	5	..	1	..	1	..	..	..	..	..	..	..	..	
Muskegon.....	234	Total.....	76	176	106	46	22	19	7	7	4	4	1	..	..	..	..	
		Males.....	4	78	77	32	14	13	5	5	3	2	1	..	..	..	..	
		Females.....	72	98	29	14	8	6	2	2	1	2	..	..	..	..	..	
Newaygo.....	180	Total.....	79	126	78	32	14	7	7	8	6	..	2	1	..	..	..	
		Males.....	4	68	51	28	9	3	3	7	4	..	2	1	..	..	..	
		Females.....	75	58	27	4	5	4	4	1	2	..	..	..	..	..	..	
Oakland.....	319	Total.....	78	233	175	54	25	18	17	18	7	5	6	2	..	..	..	
		Males.....	6	101	112	39	15	8	13	11	5	2	5	2	..	..	..	
		Females.....	72	132	63	15	10	10	4	7	2	3	1	..	..	..	..	
Oceana.....	160	Total.....	72	115	56	25	16	8	11	..	5	2	7	2	1	..	..	
		Males.....	5	62	40	18	10	7	7	..	4	1	3	2	1	..	..	
		Females.....	67	53	16	7	6	1	4	..	1	1	4	..	..	..	..	
Ogemaw.....	42	Total.....	19	23	23	10	5	1	2	1	..	..	..	..	..	..	..	
		Males.....	..	11	15	9	3	1	2	1	..	..	..	..	..	..	..	
		Females.....	19	12	8	1	2	..	..	..	..	..	..	..	..	..	..	
Ontonagon.....	36	Total.....	6	27	16	8	4	2	1	..	..	..	..	..	..	8	..	
		Males.....	..	10	10	7	3	1	1	..	..	..	..	..	..	4	..	
		Females.....	6	17	6	1	1	1	..	..	..	..	..	..	..	4	..	
Osceola.....	128	Total.....	53	102	52	17	8	3	9	4	2	4	2	..	..	..	..	
		Males.....	1	53	39	14	5	3	5	1	1	4	2	..	..	..	..	
		Females.....	52	49	13	3	3	..	4	3	1	..	..	..	..	..	..	
Oscoda.....	18	Total.....	8	12	6	4	3	1	..	..	1	..	1	..	..	..	..	
		Males.....	..	7	4	4	2	..	..	..	..	..	1	..	..	..	..	
		Females.....	8	5	2	..	1	1	..	..	1	..	..	..	..	..	..	
Otsego.....	40	Total.....	19	28	14	11	1	3	..	1	1	..	..	2	..	..	..	
		Males.....	..	15	10	10	1	2	..	..	1	..	..	1	..	..	..	
		Females.....	19	13	4	1	..	1	..	1	..	..	..	1	..	..	..	
Ottawa.....	305	Total.....	96	246	144	53	17	13	14	3	6	5	5	4	2	2	..	
		Males.....	4	119	101	37	10	11	6	2	4	3	2	3	2	1	..	
		Females.....	92	127	43	16	7	2	8	1	2	2	3	1	..	1	..	
Presque Isle..	42	Total.....	19	40	12	6	4	1	..	..	2	..	..	..	..	..	..	
		Males.....	..	24	8	5	3	1	..	..	1	..	..	..	..	..	..	
		Females.....	19	16	4	1	1	..	..	..	1	..	..	..	..	..	..	

PERSONS MARRIED BY PERIODS OF AGE, BY COUNTIES 75

**Table 43.**—CONCLUDED.—*Number of persons married, by sex and periods of age.*

Counties.	Total marriages, 1896.	Sex.	Number of persons married, by periods of age, 1896.															
			Under 20	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unk.	
Roscommon...	6	Total .....	4	3	2	1	1	1										
		Males .....	2	2	2	1	1											
		Females .....	4	1				1										
Saginaw .....	649	Total .....	185	551	295	107	56	27	24	24	13	9	4	3				
		Males .....	2	256	205	75	45	17	16	14	8	6	2	3				
		Females .....	183	295	90	32	11	10	8	10	5	3	2					
Sanilac.....	249	Total .....	77	214	105	41	25	7	9	8	4	2	3	2	1			
		Males .....	2	101	77	26	20	5	7	4	3		1	2	1			
		Females .....	75	113	28	15	5	2	2	4	1	2	2					
Schoolcraft...	55	Total .....	14	38	31	15	4	1	2	1	4							
		Males .....		14	22	10	4	1	1		3							
		Females .....	14	24	9	5			1	1	1							
Shiawassee...	334	Total .....	106	258	151	51	38	14	16	11	9	4	7	1	2			
		Males .....	3	132	102	34	21	8	11	10	5	2	3	1	2			
		Females .....	103	126	49	17	17	6	5	1	4	2	4					
St. Clair.....	471	Total .....	129	335	247	102	53	26	18	16	3	7	5	1				
		Males .....	11	136	165	72	37	18	6	12	2	6	5	1				
		Females .....	118	199	82	30	16	8	12	4	1	1						
St. Joseph.....	266	Total .....	88	203	115	65	23	10	13	4	3	3	5					
		Males .....	9	98	81	41	13	3	11	2	2	2	4					
		Females .....	79	105	34	24	10	7	2	2	1	1	1					
Tuscola .....	304	Total .....	120	232	123	47	27	18	10	9	7	9	1	3	1	1		
		Males .....	4	125	85	31	21	13	5	5	5	7	1	1	1			
		Females .....	116	107	38	16	6	5	5	4	2	2		2		1		
Van Buren.....	288	Total .....	119	218	104	45	25	13	15	9	10	8	5	3	1	1		
		Males .....	17	110	72	34	12	10	10	6	3	6	4	2	1	1		
		Females .....	102	108	32	11	13	3	5	3	7	2	1	1				
Washtenaw...	324	Total .....	65	267	173	65	21	19	11	9	5	5	3	3	1	1		
		Males .....	4	114	104	48	18	14	5	4	4	3	3	2	1			
		Females .....	61	153	69	17	3	5	6	5	1	2		1		1		
Wayne.....	2,413	Total .....	488	2,010	1314	482	235	109	82	40	33	17	8	5	3			
		Males .....	16	876	842	330	158	68	48	27	22	14	4	5	3			
		Females .....	472	1,134	472	152	77	41	34	13	11	3	4					
Wexford.....	136	Total .....	54	99	55	21	13	15	3	4	3	4	1					
		Males .....	2	56	38	12	9	10	2	1	2	3	1					
		Females .....	52	43	17	9	4	5	1	3	1	1						

## PART IV.—DEATHS IN MICHIGAN DURING THE YEAR 1896.

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There were 21,983 deaths returned as having occurred in Michigan during the year 1896. This shows a decrease of 774 deaths from the number returned for the preceding year (22,757), and the death rate decreased correspondingly from 10.0 in 1895 to 9.5 in 1896. This rate includes stillbirths and represents the number of persons who died per 1,000 estimated population. The year on the whole was a very favorable one, no special epidemics having occurred, while the mortality from one very important cause of death—consumption—was the lowest ever recorded in the history of Michigan vital statistics. The total number of deaths from dangerous communicable diseases, including in this number consumption, diphtheria, scarlet fever, typhoid fever, whooping cough, measles, and some others of less importance, was only 4,258. This was the smallest number from this group of diseases recorded in Michigan since the year 1878. During this period of nearly twenty years the State has largely increased in population, so that the death rate per 100,000 population from dangerous communicable diseases during the year 1896 (183.9) was far lower than that for the year 1878 (255.3), *or for any other year of registration*. This is a fact of very great importance and interest to the people of Michigan, for it is on the diseases included in this group that the State Board of Health has chiefly expended its efforts during the quarter-century of its existence, and the extremely low death rate during the year would seem to be strong evidence of the success of its work in preventive medicine.

The mortality statistics of Michigan have been collected by a perfectly uniform method since the year 1869, hence comparisons like the above are reliable, even though it be well known that the old Michigan law for the registration of deaths did not obtain all of the deaths that occurred. For many purposes, such as the comparison of the mortality of different years from all causes or from specific causes of death, the age and sex distribution of decedents, and the like, which do not depend for their accuracy upon an absolutely complete registration of deaths, the data presented in this series of Registration Reports up to the present time is fairly satisfactory. For the establishment of reliable death rates, comparable with the statistics of other states or countries, and for the study of the relation of mortality to meteorological conditions, however, the old data were nearly if not quite worthless. We are fortunate in having, since August 29, 1897, a system of immediate registration of deaths in operation in this State, whose results, as published from month to month in the *Michigan Monthly Bulletin of Vital Statistics*, have already proved themselves to be far more reliable than those obtained under the old system. The present Report contains practically the last year's mortality statistics collected under

the old law without change from former methods. It is true that the statistics of the entire year 1897 are to be collected by the supervisors as usual, but examination of the returns so far made to this Department have shown that for the latter part of the year some supervisors, contrary to the recommendations of this Department, have availed themselves of the deaths registered by the township clerks in making their returns, and that in consequence the returns for the last four months of 1897 will be somewhat more complete than customary under the old law. The present Report, therefore, marks the disappearance of the old system. For this reason the usual tables are presented in order that the series of statistics of which this year forms the practical termination may be complete, but the explanatory text will be as condensed as possible. Present interest is determined chiefly to the working of our new registration law and the study of its valuable and timely results.

Besides the decrease in the dangerous communicable diseases, which has been referred to above, there was a decline in the number of deaths from bowel diseases, especially "cholera infantum." Many of the deaths grouped under this class are properly considered as due to food infection and unfavorable hygienic conditions, so that next to the dangerous communicable diseases, this group offers the most promising field for life-saving. Brain diseases showed slight changes in the recorded mortality from the preceding year. Cancer continued its regular increase, although the number of deaths reported from "tumor" was slightly less than for 1895. Influenza showed a marked decline, falling off from 410 deaths in 1895 to 248 in 1896. The latter number is the least from this cause since the year 1889, just prior to the great epidemic. Lung diseases generally, excluding consumption, were less fatal than in 1895, but more deaths have resulted from this group of causes during the past few years than were formerly reported. There seems to be a tendency to increase in this class of diseases. These few remarks on causes of death are intended to call attention to the necessity of studying them in relation to the general age distribution of the mortality of the year.

As in previous Reports, this portion is divided into two sections, viz.: SECTION I.—THE INCIDENCE OF DEATHS, by months, sex, age, color, nativity, nationality, geographical location, etc., and SECTION II.—THE CAUSES OF DEATHS. It should not be understood that the second division fails to study the factors mentioned in the preceding group, but its distinctive feature is that it classifies them with reference to particular diseases, instead of simply showing their relation to total mortality.

It may be noted that in the above list nationality is given for decedents in Michigan as well as nativity; the former is much more definite and is of greater statistical value. At the close of section II some tables are given relating to occupations of decedents, for the reason that the subject is chiefly studied with respect to the causes of death affecting occupations.

Besides the tables contained in this part of the Report, the tables in Part I should be referred to, especially Tables 2, 3, 5 and 6, for comparative statements of the deaths registered for previous years; death rates with and without inclusion of stillbirths; deaths and death rates by counties, and variations in the returns of deaths, by counties, between the years 1895 and 1896.

# SECTION I.—INCIDENCE OF DEATHS IN MICHIGAN DURING THE YEAR 1896.

The tables in this section contain statements in regard to the incidence of deaths in the State during the year 1896, arranged to show the following particulars: (1) Deaths by months; (2) number and proportion of each sex among the decedents; (3) deaths by ages of decedents; (4) nativity; (5) nationality; (6) color and race. Herewith is presented a brief statement of the more prominent facts contained in this section:

## SUMMARY OF THE REGISTRATION OF DEATHS FOR THE YEAR 1896.\*

Total number of deaths returned,	21,983
Death rate per 1,000 estimated population,	9.5
Decrease of Deaths returned for 1896 (21,983) from the number returned for 1895 (22,757),	774

In the above statement of deaths, stillbirths are included to the number of 1,254. Excluding these, as is customary in most mortality reports, we have:

Total number of deaths, stillbirths excluded,	20,729
Death rate, stillbirths excluded,	9.0

Of the 21,983 deaths in 1896 there were:

Males,	11,807
Females,	10,119
Sex unknown or unspecified (47 of these stillbirths),	57

With respect to age at death, there were of the 20,469 deaths at specified ages, exclusive of stillbirths:

Deaths of infants under 1 year of age,	4,098 or 20.0 per cent
Deaths of children under 5 years of age,	6,035 or 29.5 per cent
Deaths of children under 1 year of age per 1,000 living births,	91.0

The average ages at death, according to the returns for 1896, and exclusive of stillbirths, were as follows:

Both sexes and all nativities,	35.3 years
Males,	36.4 years
Females,	34.1 years
Native born (persons),	27.7 years
Foreign born (persons),	55.4 years

Classifying the decedents by color and race, there were:

White,	21,696
Colored (black, 129; mulatto, 42; Indian, 113),	284
Color unknown or unspecified,	3

By nativity, there were, including stillbirths:

Native born decedents,	16,074
Foreign born decedents,	5,111
Nativity unknown or unspecified,	798

\* See also Summary at beginning of Section II relating especially to Causes of Death registered for 1896.

By nationality of the foreign born, including all nationalities having over 250 decedents returned for the year, we have:

Canada, . . . . .	1,286
England and Wales, . . . . .	687
Ireland, . . . . .	666
Germany, . . . . .	1,880

*Synopsis of tables relating to the incidence of deaths by months, sex, age, nativity, nationality and color of decedents.*

Table.	Incidence of deaths in Michigan, 1896.
<i>A.—General tables.</i>	
44.	Deaths returned, by months, for ten years, 1887-96; with average for the ten-year period.
45.	Deaths returned, by sex and periods of age, during the year 1896.
46.	Deaths returned, by sex, for sixteen years, 1880-96, with rates per 1,000 population of same sex, ratios of deaths of males to deaths of females; and relative male mortality for each year; also average for the ten-year period, 1887-96.
47.	Death rates per 1,000 population at important periods of age, per cents of deaths at those ages to total deaths at specified ages, and deaths of infants under one year of age per 1,000 births, for each of the years 1870-96; with quinquennial averages.
48.	Death rates, by sex, at certain important periods of age, 1896.
49.	Death rates, by nativity, at certain important periods of age, 1896.
50.	Average ages at death, by nativity and sex, for the years 1892-96.
51.	Nativity of decedents for the years 1887-96, with average of the ten-year period.
52.	Nationality of decedents, 1896, with rates per 1,000 population of like nationality.
53.	Deaths by months, at certain periods of age, showing the percentage of the deaths in each month and age period to total deaths in corresponding months and age periods, 1896.
<i>B.—Detailed tables.</i>	
54.	Statement by counties of the number of deaths returned for each month, 1896, showing sex of decedents.
55.	Statement by counties of the number of deaths returned for the year 1896 at each five-year period of age (and at each year of age under five), showing sex of decedents.
56.	Showing by ages in periods of years, and by sex, the number of deaths returned for each month of the year 1896.
57.	Showing by ages in years (by months under one year), and by sex, the number of deaths returned for each month of the year 1896.
58.	Statement by counties of the number of deaths returned of each color during the year 1896, specifying sex.
59.	Statement by counties of the number of deaths returned of each nativity during the year 1896, specifying sex.
60.	Statement by counties of the number of deaths returned of each nationality during the year 1896, specifying sex.
61.	List of townships reporting that no deaths occurred in 1896, showing population by State census in 1894.
62.	List of delinquent townships (those making no returns of deaths) for the year 1896, showing population in 1894.

## DEATHS RETURNED BY MONTHS, 1887-96.

In Table 44 the number of deaths returned by months for 1896 may be compared with each of the years since 1887, and also with the average of the ten-year period 1887-96. This average, it must be noted, has not been corrected for increase of population, so that the general relations of the deaths returned in the several months of the same year or period can only be compared. It was well known that the indications of this table were quite unreliable in showing the seasonal mortality of the year, and the new registration law for deaths, in effect August 29, 1897, has already presented more reliable data on this subject than could be obtained from the old law during its entire history.

**Table 44.**—Deaths returned, by months, for the years 1887-96, inclusive; with average for the ten-year period. (Still births included.)

Years	Total for year.	Months.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1887....	19,482	1,249	1,274	1,535	1,599	1,472	1,405	1,915	2,055	1,916	1,699	1,554	1,743	66
1888....	21,764	1,416	1,585	1,865	1,909	1,858	1,627	1,789	2,169	1,978	1,848	1,642	2,012	66
1889....	20,315	1,409	1,266	1,676	1,585	1,454	1,389	1,677	2,214	2,025	1,894	1,712	1,951	63
1890....	21,642	1,745	1,599	1,776	1,807	1,704	1,633	1,849	2,032	1,892	1,808	1,739	2,027	31
1891....	22,079	1,486	1,385	1,774	2,047	1,732	1,560	1,678	2,147	1,973	2,011	1,860	2,351	48
1892....	21,729	2,152	1,687	1,735	1,878	1,700	1,481	1,678	1,942	1,802	1,892	1,788	1,949	45
1893....	21,982	1,413	1,454	1,789	1,668	1,744	1,616	1,695	2,042	2,166	1,909	1,818	2,605	63
1894....	20,959	1,404	1,272	1,641	1,727	1,705	1,619	1,668	2,024	2,047	2,007	1,845	1,975	25
1895....	22,757	1,523	1,654	2,098	1,893	1,808	1,556	1,850	2,163	2,304	2,072	1,851	1,942	43
1896....	21,983	1,434	1,558	1,819	1,918	1,672	1,585	1,775	2,071	2,057	1,938	1,915	2,185	56
Average 1887-96	21,469	1,523	1,473	1,771	1,803	1,685	1,547	1,757	2,086	2,016	1,908	1,772	2,074	51

Maxima in bold-face type; minima in *italics*.

Table 45 shows the age and sex distribution of the deaths returned in Michigan during 1896. The percentages of deaths at each age, by sex, and the percentages of the deaths of each sex, by quinquennial periods of ages, are shown, together with the excess percentage of each sex at each age and the ratio of deaths of males to 100 deaths of females. This table deals only with deaths; as the number of deaths of either sex at any given age depends upon the constitution of the population with reference to that group, the death rates by sex at different periods of age given elsewhere (Tables 46 and 48) afford more satisfactory bases of comparison.

In Table 46 the relative death rates of the sexes in Michigan may be compared for a series of years. The inclusion of stillbirths increases the relative male mortality, which for the ten-year period 1887-96 is seen to be 9 per cent greater than the mortality of the female population. In Table 48 some additional comparisons of the death rates of the sexes are made for the year 1896, with distinction of age periods.

**Table 45.**—*Exhibiting, by sex, and by age in periods of years, the number and proportion of persons returned as having died in Michigan during the year 1896. (Stillbirths included.)*

Ages in years and periods of years.	Number of deaths, 1896.				Per cent of deaths at each age to total at all ages.			Per cent of deaths of each sex to total of both sexes.†				Excess of the sexes by number.		Males to 100 females.
	Total.	Males.	Fema'es.	Unknown.	Total.	Males.	Females.	Males.	Females.	Excess.		Males.	Females.	
										Males.	Females.			
All ages.....	21,983	11,807	10,119	57	100.0	100.0	100.0	53.7	46.0	7.7	.....	1,688	....	117
Stillbirths.....	1,254	687	520	47	5.7	5.8	5.1	54.8	41.5	13.3	.....	167	....	132
Under 1 year*.....	4,098	2,313	1,780	5	18.6	19.6	17.6	56.4	43.4	13.0	.....	533	....	130
1 year.....	884	446	438	....	4.0	3.8	4.3	50.5	49.5	1.0	.....	8	....	102
2 years.....	485	265	220	....	2.2	2.2	2.2	54.6	45.4	9.2	.....	45	....	120
3 years.....	305	155	150	....	1.4	1.3	1.5	50.8	49.2	1.6	.....	5	....	103
4 years.....	263	138	125	....	1.2	1.2	1.2	52.5	47.5	5.0	.....	13	....	110
Under 5 years*.....	6,035	3,317	2,713	5	27.5	28.1	26.8	55.0	45.0	10.0	.....	604	....	122
5 to 9.....	768	403	365	....	3.5	3.4	3.6	52.5	47.5	5.0	.....	38	....	110
10 to 14.....	523	264	259	....	2.4	2.2	2.6	50.5	49.5	1.0	.....	5	....	102
15 to 19.....	759	347	412	....	3.5	2.9	4.1	45.7	54.3	.....	8.6	....	65	84
20 to 24.....	959	393	566	....	4.4	3.3	5.6	41.0	59.0	.....	18.0	....	173	69
25 to 29.....	875	413	462	....	4.0	3.5	4.6	47.2	52.8	.....	5.6	....	49	89
30 to 34.....	745	349	396	....	3.4	3.0	3.9	46.8	53.2	.....	6.4	....	47	88
35 to 39.....	786	353	433	....	3.6	3.0	4.3	44.9	55.1	.....	10.2	....	80	82
40 to 44.....	687	359	328	....	3.1	3.0	3.2	52.3	47.7	4.6	.....	31	....	109
45 to 49.....	721	378	343	....	3.3	3.2	3.4	52.4	47.6	4.8	.....	35	....	110
50 to 54.....	859	466	393	....	3.9	3.9	3.9	54.2	45.8	8.4	.....	73	....	119
55 to 59.....	852	494	358	....	3.9	4.2	3.5	58.0	42.0	16.0	.....	136	....	138
60 to 64.....	1,044	638	406	....	4.7	5.4	4.0	61.1	38.9	22.2	.....	232	....	157
65 to 69.....	1,139	645	494	....	5.2	5.5	4.9	56.6	43.4	13.2	.....	151	....	131
70 to 74.....	1,238	708	530	....	5.6	6.0	5.2	57.2	42.8	14.4	.....	178	....	134
75 to 79.....	1,102	653	449	....	5.0	5.5	4.4	59.3	40.7	18.6	.....	204	....	145
80 to 84.....	781	444	337	....	3.6	3.8	3.3	56.9	43.1	13.8	.....	107	....	132
85 to 89.....	409	249	160	....	1.9	2.1	1.6	60.9	39.1	21.8	.....	89	....	156
90 to 94.....	139	71	68	....	.6	.6	.7	51.1	48.9	2.2	.....	3	....	104
95 to 99.....	39	23	16	....	.2	.2	.2	59.0	41.0	18.0	.....	7	....	144
100 and over.....	9	5	4	....	.0	.0	.0	55.6	44.4	11.2	.....	1	....	125
Unknown ages.....	260	148	107	5	1.2	1.3	1.1	56.9	41.2	15.7	.....	41	....	138

\* Excluding stillbirths.

† Unknown sex excluded.



**Table 46.**—Deaths in Michigan, by sex, for each of the years 1880-96, inclusive, with death rates per 1,000 population of same sex, ratios of deaths of males to deaths of females and relative male mortality. (Stillbirths included.)

Year.	Population.		Number of deaths.		Rates per 1,000.		Deaths of males to 100 deaths of females.	Relative male mortality.+
	Males.	Females.	Males.	Females.	Males.	Females.		
1880* .....	862,355	774,582	8,645	7,410	10.0	9.6	116.7	104
1881.....	890,372	800,694	10,263	8,910	11.5	11.1	115.2	104
1882.....	918,390	826,805	8,713	7,664	9.5	9.3	113.7	102
1883.....	946,407	852,917	9,101	7,748	9.6	9.1	117.5	105
1884* .....	974,424	879,028	9,589	8,385	9.8	9.5	114.4	103
1885.....	993,983	899,542	9,025	7,569	9.1	8.3	119.2	110
1886.....	1,013,543	920,055	9,725	8,402	9.6	9.1	115.7	105
1887.....	1,033,102	940,569	10,563	8,877	10.2	9.4	119.0	108
1888.....	1,052,661	961,082	11,722	10,024	11.1	10.4	116.9	107
1889.....	1,072,221	981,596	10,984	9,297	10.2	9.5	118.1	107
1890* .....	1,091,780	1,002,109	11,801	9,771	10.8	9.8	120.7	110
1891.....	1,108,970	1,021,857	11,908	9,998	10.7	9.8	119.1	109
1892.....	1,126,160	1,041,605	11,837	9,809	10.5	9.4	120.7	112
1893.....	1,143,350	1,061,353	11,772	10,142	10.3	9.6	116.1	107
1894* .....	1,160,540	1,081,101	11,159	9,744	9.6	9.0	114.5	107
1895.....	1,177,730	1,100,849	12,161	10,510	10.3	9.5	115.7	108
1896.....	1,194,920	1,120,597	11,807	10,119	9.9	9.0	116.7	110
Average, 1887-96.....	1,116,143	1,031,272	11,571	9,829	10.4	9.5	117.7	109

\* Census years (State censuses, 1884 and 1894).

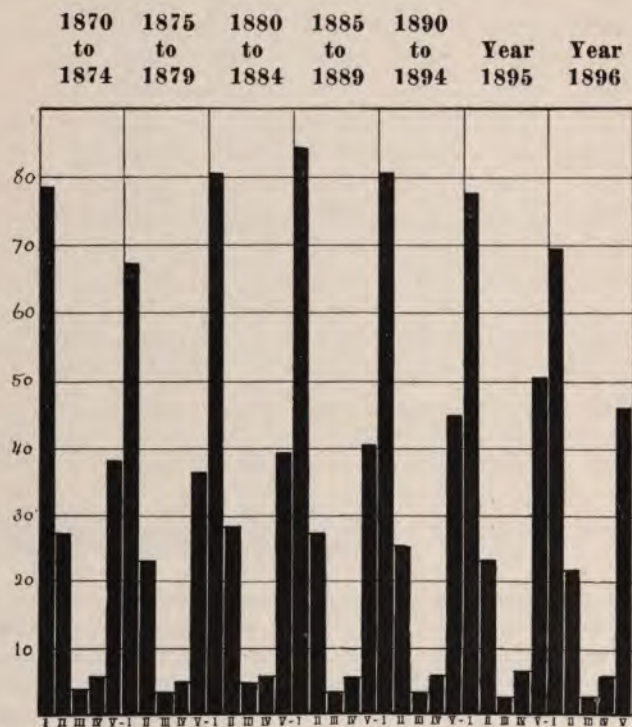
+ Ratio of death rates (not deaths) of males to death rates of females. This comparison eliminates the unequal distribution of the sexes in the population.

Table 47 is one of the most important in the Report, since it enables the course of mortality at certain important age periods to be followed through the successive years of registration. The portion of the table to the left of the parallel rules is of greatest interest, death rates being stated per 1,000 population of the same period of age. Thus in 1896 the death rate of infants under one year of age was 69.6 per 1,000—lower than any year since 1879. That of children under 5 years of age was also very low, 21.8 per 1,000, or lower than any other year in the table except 1878. Other periods of ages can be compared in a similar manner. On the right of the table are given percentages of the deaths at each age period to total deaths at all ages. These ratios, although less valuable for statistical comparison than death rates based on population, are sometimes referred to, and are therefore given in a convenient form for examination.

Diagram I shows graphically how the death rates given in Table 47 varied for five successive quinquennial periods and the last two single years.



DIAGRAM I.—DEATH RATES IN MICHIGAN, BY IMPORTANT PERIODS OF AGE,  
FOR THE QUIN-QUENNIAL PERIODS 1870-74, 1875-79, 1880-84,  
1885-89, 1890-94, AND THE YEARS 1895 AND 1896.



NOTE—See Table 47 on opposite page. Scale indicates deaths per 1,000 estimated population of same age. Five groups of ages are shown, as follows: I. Under 1 year; II. Under 5 years; III. Aged 5 to 14 years; IV. Aged 15 to 64 years; V. Aged 65 years and over.

**Table 47.**—*Death rates per 1,000 population at certain specified periods of age, (with percentage to deaths at all ages) and ratios of deaths under one year of age per 1,000 living births, for each of the years 1870-96, inclusive; with averages for quinquennial periods, and for the quarter century. (Stillbirths excluded from both births and deaths.)*

Years and periods.	Death rates per 1,000 population of corresponding age.						Percentages of deaths at each age to total deaths at all ages.					Deaths of infants under 1 year of age per 1,000 living births.
	All ages.	Under 1 year.	Under 5 years.	5 to 14.	15 to 64.	65 and over.	Under 1 year.	Under 5 years.	5 to 14.	15 to 64.	65 and over.	
1870.....	8.9	74.4	26.5	3.5	5.4	37.0	23.5	42.1	9.6	36.6	11.6	91.3
1871.....	7.7	58.3	21.2	2.9	4.8	36.9	21.2	38.7	9.3	38.1	14.0	75.6
1872.....	10.3	88.7	30.9	4.0	6.3	38.1	23.9	41.6	9.3	37.2	11.9	110.9
1873.....	10.6	92.4	31.7	4.4	6.5	41.2	23.9	40.9	9.9	37.2	12.0	96.0
1874.....	8.8	79.5	25.7	3.0	5.6	38.0	24.6	39.6	8.1	38.7	13.7	94.8
1875.....	8.1	71.2	23.3	2.6	5.1	34.6	24.2	39.1	7.8	39.1	14.0	85.5
1876.....	8.2	72.0	23.5	3.0	5.0	37.9	23.7	38.3	8.5	37.8	15.4	82.8
1877.....	8.1	66.9	23.0	3.2	5.0	37.1	22.1	37.5	9.2	37.8	15.4	81.1
1878.....	7.7	59.7	21.2	3.4	4.6	36.0	20.6	35.8	10.0	38.0	16.0	70.5
1879.....	8.6	67.5	24.3	4.3	5.0	38.5	20.8	36.7	11.7	36.0	15.7	84.1
1880.....	9.4	75.7	27.4	4.6	5.4	39.9	21.5	37.9	11.3	35.7	15.2	93.5
1881.....	11.0	91.7	33.8	6.1	6.1	41.3	21.7	39.0	12.6	34.7	13.7	116.4
1882.....	9.0	73.3	26.1	4.7	5.3	36.8	20.9	36.3	11.9	36.3	15.4	88.7
1883.....	9.0	74.5	25.8	3.8	5.5	37.7	21.1	35.5	9.7	38.5	16.3	83.0
1884.....	9.4	88.5	28.7	3.8	5.5	39.2	23.7	37.4	9.2	36.9	16.5	101.2
1885.....	8.4	72.9	23.6	3.2	5.2	37.6	21.6	34.1	8.6	39.1	18.2	81.2
1886.....	9.0	83.2	27.2	3.3	5.4	38.7	22.8	36.4	8.3	37.5	17.9	96.1
1887.....	9.5	86.1	28.4	3.4	5.7	41.4	22.1	35.5	8.1	37.9	18.5	(97.2) 89.3
1888.....	10.2	97.0	30.8	3.8	6.2	44.9	23.0	35.4	7.2	38.3	19.1	(103.4) 97.2
1889.....	9.3	84.5	27.6	3.2	5.8	40.4	21.7	34.3	7.6	39.1	19.1	(91.1) 84.9
1890.....	9.7	84.0	27.2	3.8	6.1	41.9	20.6	32.4	8.6	39.7	19.4	(89.7) 80.8
1891.....	9.9	86.3	26.9	3.3	6.1	46.0	21.3	33.0	7.5	39.3	21.2	(93.7) 87.8
1892.....	9.6	78.3	25.1	3.2	5.9	47.0	20.2	31.0	7.4	39.3	22.4	90.5
1893.....	9.5	80.8	25.0	3.1	5.9	46.8	21.1	31.1	7.2	39.1	22.4	93.2
1894.....	8.9	75.3	22.8	2.6	5.7	43.5	21.2	30.6	6.4	40.8	22.3	95.9
1895.....	9.5	78.0	23.2	2.5	6.2	50.9	20.6	29.1	5.7	41.0	24.2	97.9
1896.....	9.0	69.6	21.8	2.6	5.7	46.2	20.0	29.5	6.3	40.4	23.7	91.0
1870-74.....	9.3	78.7	27.2	3.6	5.7	38.2	23.4	40.6	9.2	37.6	12.6	93.7
1875-79.....	8.1	67.5	23.1	3.3	4.9	36.8	22.3	37.5	9.4	37.7	15.3	80.8
1880-84.....	9.6	80.7	28.4	4.6	5.6	39.0	21.8	37.2	10.9	36.4	15.4	96.6
1885-89.....	9.3	84.7	27.5	3.3	5.7	40.6	22.2	35.1	8.0	38.4	18.6	(93.8) 89.7
1890-94.....	9.5	80.9	25.4	3.2	5.9	45.0	20.9	31.4	7.4	39.6	21.5	(92.6) 89.6
1870-94.....	9.2	78.5	26.3	3.6	5.6	39.9	22.1	36.4	9.0	37.9	16.7	(91.5) 90.1

NOTE.—The numbers in parentheses in the last column of this table represent the figures for infant mortality after correction, as far as possible, for fraudulent returns of births and deaths from Wayne county (Detroit) during the years 1887-91. See Report for 1892, p. 14.

In Table 48 the estimated population, deaths and death rates, by sex, are given for the year 1896. Stillbirths are excluded, thus making the comparison fairer than that given in Table 46, and the important influence of childbearing as affecting the death rate of females is clearly shown. At every period of age except from 15 to 44 years, the death rate of males is higher than the death rate of females, but for this period the mortality of females exceeds that of males by 25 per cent.

**Table 48.**—*Showing, by sex, the death rates and relative male mortality in Michigan at certain periods of age for the year 1896. (Stillbirths and unknown sex excluded.)*

Periods of age.	Estimated population, 1896.*		Deaths, 1896.*		Death rates per 1,000 population, 1896.		Relative male mortality.†
	Males.	Females.	Males.	Females.	Males.	Females.	
All ages.....	1,194,921	1,120,596	11,120	9,599	9.3	8.6	108
Under 1 year.....	29,998	28,856	2,341	1,800	78.0	62.4	125
1-4.....	111,831	106,601	1,018	943	9.1	8.8	103
Under 5 years.....	141,829	135,457	3,359	2,743	23.7	20.2	117
5-14.....	247,562	241,558	679	631	2.7	2.6	104
15-29.....	317,020	314,565	1,170	1,456	3.7	4.6	80
30-44.....	247,258	218,409	1,075	1,170	4.3	5.4	80
45-64.....	184,644	162,174	2,002	1,517	10.8	9.4	115
65 and over.....	56,608	48,433	2,835	2,082	50.1	43.0	117

\* Unknown ages distributed *pro rata*.† Ratio of *death rates* (not deaths) of males to death rates of females, the latter taken as 100 per cent. This method of comparison eliminates inequalities due to unequal distribution of the sexes in the population.

A similar comparison is made in Table 49 of the death rates of the native and foreign born population at different age periods. For the early age periods the ratios are of somewhat doubtful validity, owing to the small number of deaths of the foreign born and the small basis of population.

**Table 49.**—*Showing, by nativity, the death rates in Michigan at certain periods of age for the year 1896. (Stillbirths and unknown nativity excluded.)*

Periods of age.	Estimated population, 1896.*		Deaths, 1896.*		Death rates per 1,000 population, 1896.	
	Native-born.	Foreign-born.	Native-born.	Foreign-born.	Native-born.	Foreign-born.
All ages.....	1,730,086	585,481	14,820	5,111	8.6	8.7
Under 1 year.....	58,579	262	4,055	40	69.2	+152.7
1-4.....	206,041	5,345	1,897	44	9.2	+8.2
Under 5 years.....	264,620	5,607	5,952	84	22.5	+15.0
5-14.....	452,864	43,210	1,186	99	2.6	+2.3
15-29.....	476,090	155,498	1,938	572	4.1	3.7
30-44.....	285,593	180,109	1,312	822	4.6	4.6
45-64.....	193,118	153,731	1,802	1,503	9.3	9.8
65 and over.....	57,751	47,326	2,630	2,031	45.5	42.9

\* Unknown ages distributed *pro rata*.† *Deaths* of the foreign born returned at early ages are possibly too few to give reliable death rates.

Some additional information on the relative mortality of the native and foreign elements of the community may be found in the three tables following. Table 50 gives the average ages at death, by sex, of each nativity, with both inclusion and exclusion of stillbirths. The latter comparison is the fairest, since all of the stillbirths were formerly included among the deaths of natives in this table, thus unduly depressing the average age of this class. As it is, the natives have so much greater a proportion of children in their number that no conclusions as to longevity based on the average age at death are of value. Nor are the proportional deaths of each nativity, as given in Table 51, of any special interest in this connection, except, perhaps, as showing the fairly constant ratio of deaths of the foreign born in the mortality of Michigan for ten years past.

**Table 50.**—*The average ages, by nativity, of decedents in Michigan for the years 1892-96, inclusive, with the mean of the five-year period.*

Years.	All nativities.			Native born.			Foreign born.		
	Persons.	Males.	Females.	Persons.	Males.	Females.	Persons.	Males.	Females.
(Stillbirths included.)									
1892.....	32.2	32.4	32.0	24.9	24.5	25.5	52.6	53.0	52.1
1893.....	31.8	32.4	31.1	24.6	24.5	24.7	53.1	53.8	52.3
1894.....	32.6	33.4	31.8	25.5	25.6	25.5	55.2	55.9	54.4
1895.....	34.1	34.1	34.0	26.7	26.1	27.2	55.7	56.1	55.3
1896.....	33.4	34.2	32.4	25.6	25.7	25.4	55.4	56.4	54.0
Average for five years, 1892-96.....	32.8	33.3	32.3	25.5	25.3	25.7	54.4	55.0	53.6
(Stillbirths excluded.)									
1892.....	33.7	34.1	33.3	26.5	26.3	26.8	52.6	53.0	52.1
1893.....	33.3	34.1	32.4	26.2	26.3	26.1	53.1	53.8	52.3
1894.....	34.2	35.2	33.2	27.2	27.4	26.9	55.2	55.9	54.4
1895.....	35.8	36.0	35.4	28.5	28.2	28.8	55.7	56.1	55.3
1896.....	35.3	36.4	34.1	27.7	28.0	27.3	55.4	56.4	54.0
Average for five years, 1892-96.....	34.5	35.2	33.7	27.2	27.2	27.2	54.4	55.0	53.6

In presenting the statistics relative to average age at death and proportional deaths by nativity in the present Report, the compiler has followed the precedents established early in the history of registration in Michigan, and maintained down to the present time. The natural tendency in the compilation of official statistics is to routine. A table or statistical exhibit once introduced is likely to be continued from year to year simply from the force of inertia, and without reference to its special usefulness. Hence, also, forms of statistics, well enough at the time of their introduction but since replaced by better methods, are quite apt to clog statistical reports long after their usefulness has passed. The tendency to established forms is not

altogether without excuse, much of the value of certain classes of data depending upon their cumulative character due to the accession of the experience of year after year. On the other hand certain information can be as definitely secured by the compilation of a single year's statistics as by those of many years, in which case, unless of very unusual importance, the investigation should be promptly discontinued as soon as the desired information has been obtained. In other cases, special compilations for the years of decennial or quinquennial censuses will answer every purpose, besides having the advantage of being directly comparable with the population. This course will have the additional advantage of enabling many new lines of statistical investigations to be opened up, some of great possible usefulness, which could not be undertaken if all of the old lines of work were continued. These remarks are made relative to the possible discontinuance of certain tables in future Reports, it being deemed advisable to replace them by more important exhibits.

**Table 51.**—*Nativity of decedents in Michigan for the years 1887-96, inclusive, with the average of the ten years. (Stillbirths included.)*

Years.	All nativities.	Native born.		Foreign born.		Unknown nativity.	
	Number.	Number.	Percent.	Number.	Percent.	Number.	Percent.
1887.....	19,482	14,556	74.7	4,187	21.5	739	3.8
1888.....	21,764	16,328	75.0	4,501	20.7	935	4.3
1889.....	20,315	15,171	74.7	4,405	21.7	739	3.6
1890.....	21,642	15,890	73.4	4,908	22.7	844	3.9
1891.....	22,079	16,287	73.7	4,811	21.8	981	4.5
1892.....	21,729	15,683	72.2	4,915	22.6	1,131	5.2
1893.....	21,982	16,187	73.6	5,061	23.0	734	3.3
1894.....	20,959	15,718	75.0	4,542	21.7	699	3.3
1895.....	22,757	16,621	73.0	5,126	22.5	1,010	4.4
1896.....	21,983	16,074	72.7	5,111	23.2	798	3.6
Average, 1887-96.....	21,469	15,852	73.8	4,757	22.2	861	4.0

Table 52, showing the death rates by nationality, would seem to give more definite information as to the relative healthfulness of different races in this State, but it will be found on examination that the factor of age distribution largely influences the rates. Thus the English and Irish show higher death rates than the Germans, and these again exceed the Swedes and Poles. The low death rates in these cases correspond somewhat to the recent dates of immigration, and to a corresponding lower average age in the population. It is probable that data will be soon available, derived from the State census of 1894, which will enable death rates at age periods to be computed, thus affording the first reliable information in regard to the vital condition of the different nationalities.

**Table 52.**—*Number of decedents of each nationality in Michigan during the year 1896, with rates per 1,000 estimated population of like nationality.*

Country of birth.	Estimated population, 1896.	Deaths, 1896.	Death rates per 1,000 inhabitants of same nationality, 1896.	Death rates per 1,000 inhabitants of same nationality, 1895.	Death rates per 1,000 inhabitants of same nationality, 1894.
All nationalities.....	2,315,517	*20,729	*9.0	*9.5	*8.9
United States.....	1,731,175	*14,820	*2.6	*9.1	*8.8
Canada.....	209,963	1,286	6.1	6.3	5.9
England and Wales.....	45,910	637	13.9	14.2	10.7
Scotland.....	11,740	187	15.9	14.1	12.7
Ireland.....	33,299	666	20.0	21.3	17.7
Germany.....	146,831	1,330	9.1	9.5	9.1
Austria.....	5,157	27	5.2	4.9	4.1
Holland.....	34,597	219	6.3	7.2	7.0
Belgium.....	3,207	18	5.6	5.6	6.6
Switzerland.....	3,287	21	6.4	9.2	6.2
Norway.....	8,362	60	7.2	6.5	5.1
Sweden.....	28,613	201	7.0	5.5	5.8
Denmark.....	7,841	31	4.0	5.1	4.9
Russia (Finland).....	18,284	75	4.1	4.1	3.4
Poland.....	15,215	84	5.5	5.9	4.2
Hungary.....	340	1	2.9	7.7	-----
Bohemia.....	2,980	11	3.7	4.5	4.7
France.....	1,683	47	27.9	16.8	14.0
Italy.....	3,552	16	4.5	5.2	4.7
All others.....	3,486	194	55.7	29.0	16.5
Unknown.....	-----	798	-----	-----	-----

\* Stillbirths not included.

In concluding the general tables relating to the incidence of deaths in Michigan during the year 1896, a comparison of the percentages of deaths by months at certain important periods of age is presented in Table 53. The data in this table suffer from the inaccuracy affecting all of the returns by months under the old registration law, hence the relative monthly rates are not to be relied upon. The proportional deaths at each age in the individual months, however, are probably correct, and are of practical sanitary interest.



## VITAL STATISTICS OF MICHIGAN, 1896

**Table 53.**—*The relation of the deaths at different periods of age to deaths at all ages, by months; and for the same period of age the relation of the deaths in each month to total deaths in the year 1896. (Stillbirths included.)*

Deaths by ages in periods of years.	Year 1896.	Months, 1896.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
		1,434	1,558	1,819	1,918	1,672	1,586	1,775	2,071	2,067	1,938	1,915	2,185
All ages.....	*21,927												
+Under 1 year.....	5,346	29	342	391	398	397	399	511	660	560	432	463	524
{ Number.....	24.4	19.5	22.0	21.5	20.8	23.7	23.3	28.8	31.9	28.2	22.3	24.2	24.0
{ Per cent of all ages.....	100.0	5.2	6.4	7.3	7.4	7.4	6.9	9.6	12.3	10.8	8.1	8.7	9.8
+Under 5 years.....	7,279	408	474	530	554	594	506	669	841	764	615	650	746
{ Number.....	33.2	28.3	30.4	29.1	28.9	31.9	31.9	37.1	40.6	37.1	31.7	33.9	34.1
{ Per cent of all ages.....	100.0	6.6	6.5	7.3	7.5	7.3	7.0	9.1	11.6	10.5	8.4	8.9	10.2
6 to 9.....	768	50	54	49	66	43	52	55	63	71	87	85	93
{ Number.....	3.5	3.5	3.5	2.7	3.4	2.6	3.3	3.1	3.0	3.5	4.5	4.4	4.3
{ Per cent of all ages.....	100.0	6.5	7.0	6.4	8.6	5.6	6.8	7.2	8.2	9.2	11.3	11.1	12.1
10 to 19.....	1,381	69	84	136	121	110	79	113	116	131	108	97	123
{ Number.....	5.8	4.8	5.4	6.9	6.3	6.6	5.0	6.4	5.6	6.4	5.6	5.1	5.9
{ Per cent of all ages.....	100.0	5.4	6.6	9.8	9.4	8.6	6.2	8.8	9.1	10.2	8.4	7.6	10.0
20 to 49.....	4,762	337	339	424	461	405	352	365	430	393	423	376	457
{ Number.....	21.7	23.5	21.8	23.3	24.0	24.2	22.2	20.6	20.8	19.1	21.8	19.6	20.9
{ Per cent of all ages.....	100.0	7.1	7.1	8.9	9.7	8.5	7.4	7.7	9.0	8.3	8.9	7.9	9.6
50 and over.....	7,596	562	595	668	694	559	540	559	608	676	660	639	738
{ Number.....	34.7	28.5	37.5	36.7	36.0	33.5	36.6	31.5	29.4	32.9	35.6	36.0	33.8
{ Per cent of all months.....	100.0	7.3	7.7	8.8	9.1	7.4	7.6	7.4	8.0	8.9	9.1	9.1	9.7
Unknown age.....	239	20	22	23	22	21	16	24	13	22	15	18	23
{ Number.....	1.1	1.4	1.4	1.3	1.1	1.3	1.0	1.4	.6	1.1	.8	.9	1.1
{ Per cent of all months.....	100.0	8.4	9.2	9.6	9.2	8.8	6.7	10.0	5.4	9.2	6.3	7.5	9.6

\* Excluding 56 deaths in unknown month.

+ Including stillbirths.

## DEATHS BY SEX AND PERIODS OF AGE

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**Table 54.**—*Exhibiting, for the State and counties, by sex, the number of deaths returned in each month of the year 1896. (Stillbirths included.)*

State and counties.	Sex.	Year, 1896.	Months, 1896.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
State.....	Total.....	21,983	1,434	1,558	1,819	1,918	1,672	1,585	1,775	2,071	2,057	1,938	1,915	2,185	56
	Males.....	11,807	750	848	949	992	865	876	937	1,151	1,146	1,030	1,027	1,186	30
	Females.....	10,119	681	707	865	921	804	703	812	913	911	904	882	993	23
	Unknown.....	57	3	3	5	5	3	6	6	7	—	4	6	6	3
Alcona.....	Total.....	33	3	2	3	6	1	3	2	5	1	1	3	3	—
	Males.....	16	2	2	1	3	1	2	—	2	1	1	1	—	—
	Females.....	17	1	—	2	3	—	1	2	3	—	—	2	3	—
Alger.....	Total.....	28	—	2	—	1	—	3	4	3	9	4	2	—	—
	Males.....	20	—	1	—	1	—	1	4	2	5	4	2	—	—
	Females.....	8	—	1	—	—	—	2	—	1	4	—	—	—	—
Allegan.....	Total.....	378	36	20	43	31	22	22	32	35	29	31	34	34	—
	Males.....	196	16	15	25	19	9	13	18	19	12	11	13	21	—
	Females.....	180	20	14	18	12	13	9	14	16	17	20	14	13	—
	Unknown.....	2	—	—	—	—	—	—	—	—	—	—	2	—	—
Alpena.....	Total.....	156	6	16	9	14	12	9	17	13	12	15	15	18	—
	Males.....	87	4	9	5	6	8	4	7	10	8	6	11	9	—
	Females.....	69	2	7	4	8	4	5	10	3	4	9	4	9	—
Antrim.....	Total.....	91	9	12	2	5	9	7	4	7	9	11	12	4	—
	Males.....	39	5	3	—	2	5	2	2	3	3	6	7	1	—
	Females.....	52	4	9	2	3	4	5	2	4	6	5	5	3	—
Arenac.....	Total.....	50	2	4	4	4	5	2	—	8	2	5	7	5	2
	Males.....	27	—	2	3	2	3	1	—	4	1	3	3	4	1
	Females.....	23	2	2	1	2	2	1	—	4	1	2	4	1	1
Baraga.....	Total.....	40	4	4	4	6	1	1	4	6	1	2	4	3	—
	Males.....	20	2	2	1	2	1	1	2	2	—	2	2	3	—
	Females.....	20	2	2	3	4	—	—	2	4	1	—	2	—	—
Barry.....	Total.....	183	13	20	13	23	13	10	13	26	11	13	12	15	1
	Males.....	103	7	10	7	12	6	5	8	15	8	9	8	7	1
	Females.....	80	6	10	6	11	7	5	5	11	3	4	4	8	—
Bay.....	Total.....	535	25	41	42	49	52	45	52	46	51	44	45	43	—
	Males.....	298	14	22	16	32	26	29	32	24	29	29	19	26	—
	Females.....	236	11	19	26	17	26	16	20	21	22	15	26	17	—
	Unknown.....	1	—	—	—	—	—	—	—	1	—	—	—	—	—
Benzie.....	Total.....	78	6	3	5	11	7	9	10	7	5	6	3	6	—
	Males.....	33	5	1	2	6	3	4	5	1	3	2	—	1	—
	Females.....	45	1	2	3	5	4	5	5	6	2	4	3	5	—
Berrien.....	Total.....	387	13	33	33	30	28	26	23	37	46	32	31	41	14
	Males.....	202	5	17	20	15	16	10	12	22	28	18	15	19	5
	Females.....	179	8	16	13	15	12	13	10	15	18	14	16	21	8
	Unknown.....	6	—	—	—	—	—	3	1	—	—	—	—	1	1
Branch.....	Total.....	248	12	22	19	23	14	28	18	23	31	20	19	19	—
	Males.....	117	5	11	11	12	4	12	10	13	16	6	8	9	—
	Females.....	131	7	11	8	11	10	16	8	10	15	14	11	10	—
Calhoun.....	Total.....	411	32	27	31	22	36	31	28	41	33	44	35	51	—
	Males.....	236	20	20	18	12	19	15	17	27	18	24	15	31	—
	Females.....	170	12	7	11	10	16	16	11	13	15	19	20	20	—
	Unknown.....	5	—	—	2	—	1	—	—	1	—	1	—	—	—
Cass.....	Total.....	185	7	12	14	19	13	20	13	27	18	17	10	15	—
	Males.....	92	3	6	7	12	4	10	6	14	11	9	3	7	—
	Females.....	93	4	6	7	7	9	10	7	13	7	8	7	8	—
Charlevoix.....	Total.....	72	1	4	3	6	5	2	9	7	6	10	9	10	—
	Males.....	41	1	4	2	2	1	1	7	1	1	8	6	7	—
	Females.....	31	—	—	1	4	4	1	2	6	5	2	3	3	—

Table 54.—CONTINUED.—Deaths returned by counties, sex and months, 1896.

Counties.	Sex.	Year, 1896.	Months, 1896.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Cheboygan.....	Total.....	118	12	8	13	14	5	8	6	17	12	8	6	9	---
	Males.....	65	3	7	9	6	5	5	5	10	5	5	4	4	---
	Females.....	53	9	1	4	8	3	3	1	7	7	3	2	5	---
Chippewa.....	Total.....	200	7	9	16	15	13	11	23	24	20	14	25	20	3
	Males.....	110	4	6	9	7	4	6	11	14	9	11	15	12	2
	Females.....	90	3	3	7	8	9	5	12	10	11	3	10	8	1
Clare.....	Total.....	45	---	3	2	4	4	5	5	3	6	2	4	7	---
	Males.....	21	---	2	1	1	2	5	2	2	1	1	2	1	---
	Females.....	24	---	1	1	3	2	---	3	1	4	1	2	6	---
Clinton.....	Total.....	232	17	11	25	16	18	10	20	25	20	20	19	29	2
	Males.....	123	9	6	12	10	8	6	7	18	10	8	13	15	1
	Females.....	107	7	4	13	6	10	4	13	7	10	12	6	14	1
	Unknown.....	2	1	1	---	---	---	---	---	---	---	---	---	---	---
Crawford.....	Total.....	22	3	2	1	1	3	---	6	4	---	1	---	1	---
	Males.....	9	2	---	1	1	---	---	3	1	---	---	---	---	---
	Females.....	13	1	2	---	---	3	---	3	3	---	---	---	1	---
Delta.....	Total.....	187	11	8	13	16	17	10	16	22	13	18	19	24	---
	Males.....	110	7	5	7	11	10	7	11	14	6	10	8	14	---
	Females.....	77	4	3	6	5	7	3	5	8	7	8	11	10	---
Dickinson.....	Total.....	197	10	12	11	17	15	10	21	36	22	18	11	14	---
	Males.....	107	5	4	7	9	1	6	11	24	15	7	9	9	---
	Females.....	90	5	8	4	8	14	4	10	12	7	11	2	5	---
Eaton.....	Total.....	246	11	19	24	28	20	23	30	13	19	17	22	20	---
	Males.....	112	7	9	5	11	9	9	14	8	7	9	11	13	---
	Females.....	134	4	10	19	17	11	14	16	5	12	8	11	7	---
Emmet.....	Total.....	116	7	14	9	12	10	12	11	7	8	11	11	4	---
	Males.....	70	5	9	6	8	4	7	3	2	6	8	8	4	---
	Females.....	46	2	5	3	4	6	5	8	5	2	3	3	---	---
Genesee.....	Total.....	489	33	31	44	41	30	40	45	51	42	45	36	50	1
	Males.....	251	21	14	25	20	19	21	19	28	20	28	13	23	---
	Females.....	238	12	17	19	21	11	19	26	23	22	17	23	27	---
Gladwin.....	Total.....	21	---	2	2	1	3	---	5	1	3	1	2	1	---
	Males.....	11	---	2	1	---	1	---	1	1	2	1	2	---	---
	Females.....	10	---	---	1	1	2	---	4	---	1	---	---	1	---
Gogebic.....	Total.....	214	16	16	22	22	15	8	15	31	17	15	18	19	---
	Males.....	140	7	10	15	14	12	7	9	23	8	11	12	12	---
	Females.....	74	9	6	7	8	3	1	6	8	9	4	6	7	---
G'd Traverse..	Total.....	139	4	6	10	21	7	13	14	13	15	11	10	15	---
	Males.....	71	1	4	6	9	3	5	8	9	5	5	9	7	---
	Females.....	68	3	2	4	12	4	8	6	4	10	6	1	8	---
Gratiot.....	Total.....	185	6	10	13	15	16	16	19	23	19	13	18	17	---
	Males.....	85	4	5	5	11	2	7	8	9	8	8	12	6	---
	Females.....	100	2	5	8	4	14	9	11	14	11	5	6	11	---
Hillsdale.....	Total.....	285	29	18	21	25	24	17	10	32	23	36	22	26	2
	Males.....	160	12	8	13	12	9	7	19	7	25	15	18	18	2
	Females.....	124	17	6	13	11	12	8	3	13	16	10	7	8	---
	Unknown.....	1	---	---	---	1	---	---	---	---	---	---	---	---	---
Houghton.....	Total.....	476	28	38	17	39	34	34	40	50	40	37	60	59	---
	Males.....	269	11	21	7	27	21	19	25	32	19	17	37	32	---
	Females.....	207	17	17	10	12	13	15	14	18	21	20	23	27	---
Huron.....	Total.....	259	17	20	21	28	18	25	12	31	19	29	19	20	---
	Males.....	149	10	10	9	9	10	18	6	18	18	18	12	11	---
	Females.....	110	7	10	12	19	8	7	6	13	1	11	7	9	---

Table 54.—CONTINUED.—Deaths returned by counties, sex and months, 1896.

Counties.	Sex.	Year, 1896.	Months, 1896.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Ingham.....	Total.....	380	26	29	37	39	30	23	21	31	39	41	34	29	1
	Males.....	196	13	15	21	19	18	13	15	17	18	16	17	13	1
	Females.....	181	13	14	16	19	12	10	6	14	21	25	15	16	---
	Unknown.....	3	---	---	---	1	---	---	---	---	---	2	---	---	---
Ionia.....	Total.....	307	21	18	23	22	25	15	18	26	48	33	24	34	---
	Males.....	146	9	6	10	6	13	10	9	14	23	17	10	19	---
	Females.....	161	12	12	13	16	12	5	9	12	25	16	14	15	---
Iosco.....	Total.....	98	6	7	10	5	10	9	13	13	4	10	1	10	---
	Males.....	60	3	4	7	3	8	6	9	6	2	5	1	6	---
	Females.....	38	3	3	3	2	2	3	4	7	2	5	---	4	---
Iron.....	Total.....	64	4	7	8	9	3	8	3	4	6	2	6	4	---
	Males.....	39	3	5	7	5	2	3	2	1	4	1	4	2	---
	Females.....	25	1	2	1	4	1	5	1	3	2	1	2	2	---
Isabella.....	Total.....	156	8	7	14	13	10	18	7	18	18	11	13	19	---
	Males.....	81	4	4	6	7	8	10	5	6	8	5	7	11	---
	Females.....	75	4	3	8	6	2	8	2	12	10	6	6	8	---
Jackson.....	Total.....	496	39	39	32	38	46	32	27	43	44	45	60	49	2
	Males.....	259	23	13	11	21	27	19	17	23	20	21	33	30	1
	Females.....	237	16	26	21	17	19	13	10	20	24	24	27	19	---
Kalamazoo.....	Total.....	414	21	30	36	40	31	26	34	40	45	46	28	27	1
	Males.....	222	9	27	19	20	14	15	15	20	26	26	16	14	1
	Females.....	192	12	12	17	20	17	11	19	20	19	20	12	13	---
Kalkaska.....	Total.....	34	3	2	4	2	3	6	1	3	3	2	1	4	---
	Males.....	17	2	1	2	---	---	5	---	2	1	1	1	2	---
	Females.....	16	1	---	2	2	3	1	1	1	2	1	---	2	---
	Unknown.....	1	---	1	---	---	---	---	---	---	---	---	---	---	---
Kent.....	Total.....	1,181	89	98	93	124	94	73	65	100	102	96	116	130	1
	Males.....	638	46	54	46	57	54	38	30	59	59	57	58	79	1
	Females.....	538	43	43	47	67	40	35	33	41	43	39	57	50	---
	Unknown.....	5	---	1	---	---	---	2	---	2	---	---	1	1	---
Keweenaw.....	Total.....	27	---	2	3	7	2	2	2	---	2	3	3	1	---
	Males.....	16	---	1	1	5	2	2	2	---	---	2	2	1	---
	Females.....	11	---	1	2	2	---	---	---	---	2	3	1	---	---
Lake.....	Total.....	35	4	---	3	1	3	1	2	3	2	3	6	7	---
	Males.....	17	1	---	2	1	2	1	1	1	2	2	1	3	---
	Females.....	18	3	---	1	---	1	---	1	2	---	1	5	4	---
Lapeer.....	Total.....	205	10	17	15	11	24	16	19	15	19	8	16	34	1
	Males.....	104	7	8	6	4	13	8	12	8	12	4	7	14	1
	Females.....	101	3	9	9	7	11	8	7	7	7	4	9	20	---
Leelanau.....	Total.....	90	2	4	4	9	11	2	9	11	8	8	10	12	---
	Males.....	48	1	3	2	3	5	2	5	9	2	1	7	8	---
	Females.....	42	1	1	2	6	6	---	4	2	6	7	3	4	---
Lenawee.....	Total.....	422	15	30	47	47	25	32	44	30	46	36	28	40	2
	Males.....	231	9	23	24	23	10	16	25	15	23	20	18	23	2
	Females.....	190	6	7	23	23	15	16	19	15	23	16	10	17	---
	Unknown.....	1	---	---	---	1	---	---	---	---	---	---	---	---	---
Livingston.....	Total.....	132	10	12	14	7	14	10	9	4	16	11	9	16	---
	Males.....	70	7	8	7	4	5	4	3	2	9	6	6	9	---
	Females.....	62	3	4	7	3	9	6	6	2	7	5	3	7	---
Luce.....	Total.....	33	2	4	2	4	1	2	2	5	5	1	1	4	---
	Males.....	17	1	2	2	3	1	---	2	1	2	---	---	3	---
	Females.....	16	1	2	---	1	---	2	---	4	3	1	1	1	---

**Table 54.**—CONTINUED.—Deaths returned by counties, sex and months, 1896.

Counties.	Sex.	Year, 1896.	Months, 1896.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Mackinac	Total	69	9	2	6	-----	5	3	7	7	10	5	5	9	1
	Males	41	6	1	4	-----	2	1	2	4	8	2	5	6	-----
	Females	28	3	1	2	-----	3	2	5	3	2	3	-----	3	1
	Unknown	3	-----	-----	-----	-----	1	-----	2	-----	-----	-----	-----	-----	-----
Macomb	Total	317	19	21	18	21	25	22	28	23	28	27	36	49	-----
	Males	166	10	11	7	12	13	14	16	16	11	12	16	28	-----
	Females	151	9	10	11	9	12	8	12	7	17	15	20	21	-----
Manistee	Total	312	31	17	23	30	27	23	23	28	22	36	26	26	-----
	Males	161	21	10	15	10	12	10	11	13	12	17	15	15	-----
	Females	151	10	7	8	20	15	13	12	15	10	19	11	11	-----
Marquette	Total	553	34	44	53	50	37	35	65	65	38	36	48	48	-----
	Males	307	20	26	31	28	23	21	33	40	19	19	20	27	-----
	Females	244	14	18	21	21	14	14	32	25	19	17	28	21	-----
	Unknown	2	-----	-----	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
Mason	Total	158	6	10	14	13	11	8	14	13	15	15	17	21	1
	Males	94	3	7	4	10	6	5	8	5	10	8	12	15	1
	Females	63	3	3	10	3	5	3	6	8	5	7	5	5	-----
	Unknown	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	-----
Mecosta	Total	154	19	7	9	16	20	12	19	10	10	12	13	6	1
	Males	89	10	4	6	10	12	3	13	6	7	8	6	3	1
	Females	64	9	3	3	6	8	9	6	4	3	4	7	2	-----
	Unknown	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	-----
Menominee	Total	343	28	27	25	37	26	26	33	33	35	14	26	33	-----
	Males	195	15	18	15	18	18	14	17	17	19	11	12	21	-----
	Females	145	13	9	10	19	8	11	15	16	16	3	14	11	-----
	Unknown	3	-----	-----	-----	-----	-----	1	1	-----	-----	-----	-----	1	-----
Midland	Total	108	3	7	10	9	1	8	10	15	17	11	6	11	-----
	Males	65	2	3	7	6	1	6	5	5	12	8	4	6	-----
	Females	43	1	4	3	3	-----	2	5	10	5	3	2	5	-----
Missaukee	Total	46	2	4	2	6	3	5	4	5	6	1	4	4	-----
	Males	25	2	2	1	3	1	3	1	5	4	1	-----	2	-----
	Females	21	-----	2	1	3	2	2	3	-----	2	-----	4	2	-----
Monroe	Total	333	21	26	24	40	17	22	20	35	24	40	32	32	-----
	Males	165	10	15	12	21	5	15	11	22	9	16	15	14	-----
	Females	167	10	11	12	19	12	7	9	13	15	24	17	18	-----
	Unknown	1	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Montcalm	Total	292	22	26	31	27	25	24	26	23	26	26	20	16	-----
	Males	130	12	12	11	12	9	13	15	9	13	11	8	5	-----
	Females	161	10	14	20	15	16	11	11	14	13	14	12	11	-----
	Unknown	1	-----	-----	-----	-----	-----	-----	-----	-----	-----	1	-----	-----	-----
Montmorency	Total	31	1	-----	2	1	1	3	5	1	9	2	3	3	-----
	Males	18	1	-----	2	-----	1	1	4	1	6	-----	2	-----	-----
	Females	13	-----	-----	-----	1	-----	2	1	-----	3	2	1	3	-----
Muskegon	Total	361	21	28	42	23	23	19	32	27	40	32	40	32	2
	Males	184	10	13	22	12	10	11	20	11	30	19	17	17	2
	Females	171	11	15	19	11	12	8	12	13	20	13	22	15	-----
	Unknown	6	-----	-----	1	-----	1	-----	-----	3	-----	-----	1	-----	-----
Newaygo	Total	111	13	5	9	9	11	7	6	7	14	12	8	10	-----
	Males	59	7	3	5	4	8	5	2	2	9	7	3	4	-----
	Females	52	6	2	4	5	3	2	4	5	5	5	5	6	-----
Oakland	Total	370	29	16	23	22	55	27	30	32	36	28	32	38	2
	Males	195	17	10	11	10	29	16	18	14	19	16	18	16	1
	Females	175	12	6	12	12	26	11	12	18	17	12	14	22	1
Oceana	Total	135	6	6	14	18	13	8	5	7	14	10	15	19	-----
	Males	78	4	5	7	12	7	6	3	6	8	3	7	10	-----
	Females	57	2	1	7	6	6	2	2	1	6	7	8	9	-----

Table 54.—CONTINUED.—Deaths returned by counties, sex and months, 1896.

Counties.	Sex.	Year, 1896.	Months, 1896.												Unknown.
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
Ogemaw .....	Total .....	18	1	1	—	1	1	3	1	5	1	—	2	2	—
	Males .....	13	1	—	—	—	1	3	1	3	1	—	2	1	—
	Females .....	5	—	1	—	1	—	—	—	2	—	—	—	1	—
Ontonagon .....	Total .....	56	2	9	3	—	7	8	3	7	5	3	3	6	—
	Males .....	34	1	4	2	—	5	4	2	3	3	3	3	4	—
	Females .....	22	1	5	1	—	2	4	1	4	2	—	—	2	—
Osceola .....	Total .....	118	6	4	15	10	9	13	5	14	12	5	15	10	—
	Males .....	66	2	—	10	8	6	8	4	6	8	1	9	4	—
	Females .....	52	4	4	5	2	3	5	1	8	4	4	6	6	—
Oscoda .....	Total .....	17	—	—	5	3	2	1	—	1	2	—	1	2	—
	Males .....	11	—	—	5	1	1	1	—	—	1	—	—	2	—
	Females .....	6	—	—	—	2	1	—	—	1	1	—	1	—	—
Otsego .....	Total .....	39	2	3	4	4	2	3	—	1	5	3	3	9	—
	Males .....	20	1	1	3	4	1	1	—	—	3	2	—	4	—
	Females .....	19	1	2	1	—	1	2	—	1	2	1	3	5	—
Ottawa .....	Total .....	321	14	14	22	26	29	27	29	24	27	41	31	35	2
	Males .....	185	11	10	10	15	14	13	19	13	20	18	19	22	1
	Females .....	136	3	4	12	11	15	14	10	11	7	23	12	13	1
Presque Isle ..	Total .....	36	2	—	3	1	2	2	6	6	5	2	2	5	—
	Males .....	20	2	—	—	—	2	1	3	4	2	2	1	3	—
	Females .....	16	—	—	3	1	—	1	3	2	3	—	1	2	—
Roscommon ..	Total .....	8	1	—	1	1	—	—	1	1	2	—	—	1	—
	Males .....	5	—	—	1	1	—	—	—	—	2	—	—	1	—
	Females .....	3	1	—	—	—	—	—	1	1	—	—	—	—	—
Saginaw .....	Total .....	957	70	81	99	89	78	66	79	83	90	70	75	75	2
	Males .....	496	36	36	58	44	33	38	39	48	57	32	35	40	—
	Females .....	457	34	45	41	45	45	28	40	34	33	37	40	35	—
	Unknown ..	4	—	—	—	—	—	—	—	1	—	—	—	—	2
Sanilac .....	Total .....	259	17	19	26	22	22	23	14	33	21	17	20	24	1
	Males .....	152	12	12	16	13	15	11	5	20	18	9	8	13	—
	Females .....	107	5	7	10	9	7	12	9	13	3	8	12	11	1
Schoolcraft ..	Total .....	50	3	3	4	5	3	2	4	6	7	6	4	3	—
	Males .....	29	2	—	1	3	3	1	3	6	3	4	2	1	—
	Females .....	21	1	3	3	2	—	1	1	—	4	2	2	2	—
Shiawassee ..	Total .....	224	12	11	13	13	13	14	19	34	28	17	20	29	1
	Males .....	114	6	7	5	4	3	6	6	22	17	7	13	18	—
	Females .....	108	5	4	8	9	10	7	13	12	11	10	7	11	1
	Unknown ..	2	1	—	—	—	—	1	—	—	—	—	—	—	—
St. Clair .....	Total .....	441	23	23	41	36	32	29	37	51	39	41	35	52	2
	Males .....	233	11	11	25	21	12	18	22	27	21	19	17	29	—
	Females .....	207	12	12	16	15	20	11	15	23	18	22	18	23	2
	Unknown ..	1	—	—	—	—	—	—	—	1	—	—	—	—	—
St. Joseph .....	Total .....	250	13	20	22	30	22	18	19	23	21	23	14	23	2
	Males .....	138	7	12	12	18	9	11	8	12	13	14	6	14	2
	Females .....	111	6	8	10	12	13	6	11	11	8	9	8	9	—
	Unknown ..	1	—	—	—	—	—	1	—	—	—	—	—	—	—
Tuscola .....	Total .....	257	13	15	20	28	14	19	19	18	32	33	21	25	—
	Males .....	112	6	9	7	15	4	7	8	10	15	13	7	11	—
	Females .....	145	7	6	13	13	10	12	11	8	17	20	14	14	—
Van Buren .....	Total .....	307	15	22	37	22	20	16	27	25	44	35	22	22	—
	Males .....	167	6	18	22	9	12	10	12	12	25	19	16	11	—
	Females .....	139	9	9	15	13	8	6	15	13	19	15	6	11	—
	Unknown ..	1	—	—	—	—	—	—	—	—	1	—	—	—	—

**Table 54.**—CONCLUDED.—*Deaths returned by counties, sex and months, 1896.*

Counties.	Sex.	Year, 1896.	Months, 1896.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Washtenaw...	Total.....	421	29	22	38	35	31	20	38	33	46	54	33	42	---
	Males.....	236	15	10	18	21	22	14	20	13	25	31	32	25	---
	Females....	184	14	12	20	13	9	6	18	20	21	23	11	17	---
	Unknown....	1	---	---	---	1	---	---	---	---	---	---	---	---	---
Wayne.....	Total.....	4,014	298	290	317	318	271	325	338	340	350	361	375	425	6
	Males.....	2,191	143	158	165	155	148	184	189	193	219	199	213	222	3
	Females....	1,822	155	132	151	163	123	141	149	147	131	162	162	203	3
	Unknown....	1	---	---	1	---	---	---	---	---	---	---	---	---	---
Wexford.....	Total.....	117	9	2	10	9	12	9	6	15	7	13	9	16	---
	Males.....	62	3	---	5	6	9	2	4	8	5	5	6	9	---
	Females....	54	6	2	5	3	3	7	2	7	2	8	3	6	---
	Unknown....	1	---	---	---	---	---	---	---	---	---	---	---	1	---

## DEATHS BY AGES, MONTHS AND SEX—DETAILED STATEMENT BY COUNTIES. 1896.

Table 54 presents the details of the returns of deaths for the months and counties by sex. Table 55 gives the deaths by counties, ages and sex. These tables were formerly united, but separation was necessary since the latter, Table 55, has been enlarged to include several additional columns of importance, viz., the deaths by ages in individual years under 5. Stillbirths are also separately stated in this table, so that their disturbing influence upon the death rates of children under 5 and of infants under 1 year may be eliminated. The study of infant mortality is chiefly occupied with the causes of deaths of children born alive; although of great interest and importance in itself, the study of causes of stillbirths may be properly separated from it in this connection. It should be remembered that the numbers returned for each period of age for different counties may be dependent, to a large extent, upon the special age distribution of the population. Counties of the Upper Peninsula have usually a larger proportion of children and young adults than the remainder of the State; counties of the southern part of the State show a preponderance of inhabitants of advanced years, and the deaths of children returned from these parts of the State vary in like manner.

## INFANT AND CHILD MORTALITY IN MICHIGAN, 1896.

In the reports for the two years preceding, tables were given at this point showing the death rates of infants under 1 year of age and of children aged from 1 to 4 years, inclusive, for each of the counties of the State. The counties were grouped, for convenience, into four divisions: (1) Counties having rates over 50 per cent above the average; counties having rates above the average, but less than 50 per cent above it; (3) counties below the average, but not 50 per cent below it; (4) counties more than 50 per cent below the average. It was found that the majority of the counties showed rates of mortality for both infants and children less than 50 per cent below

the average of the State. This average was raised especially by the larger counties of the Upper Peninsula, and by the counties containing the largest cities of the State, such as Bay, Saginaw, Kent and Wayne. Cholera infantum and other diarrheal diseases of children were largely responsible for the high infantile death rate, and these diseases are prevalent to a fearful degree in the mining cities of the Upper Peninsula, where there exists a very large proportion of foreign population, grossly ignorant, for the most part, of sanitary and hygienic requirements.

While the general indications of the tables mentioned were probably correct, and the comparative mortality of different parts of the State was fairly well indicated, as soon as more specific data were selected for study, the element of uncertainty from the unsatisfactory character of the statistics came at once into the question. The inaccuracies arose from several sources. In the first place the deaths were very imperfectly returned, the possible correction being as high as 50 or 60 per cent on the average for deaths from all causes and from all ages. The assumption might be made that the same degree of inaccuracy would affect the deaths of children reported as affected the general returns, but while this might be fairly correct, it would seem not unlikely that deaths of infants and children might be omitted in larger proportion in the sparsely settled portion of the State, among the foreign-born inhabitants of the cities, and, in general, where registration was comparatively imperfect or difficult, than in the thickly settled communities of the southern part of the State.

A second source of error was the very unsatisfactory basis of reference in stating ratios of infant and child mortality. What is known as *infant mortality*, as used by statisticians and sanitarians, is the ratio of deaths of infants under one year of age to living births. The ratio of deaths to population under one year of age, corresponding to the death rates employed for all ages and for other individual years and groups of years, is very properly discredited for ages under one year, owing to the very great difficulty of obtaining an accurate census enumeration of this age. Comparisons were made, however, using the infant death rates instead of the infant mortality, and it was found that the arrangement of counties was very nearly the same for the deaths of infants under one year as it was for children aged from one to four years.

In the present Report it did not seem advisable to continue these calculations, as in a very short time thoroughly reliable mortality data, based on certificates of death, will be available for use in this connection. There will still be wanting, however, reliable returns of births to serve as a basis of comparison, and it is the special purpose of these remarks to urge the necessity of such returns on account of their value in the study of the deaths of infants. By establishing a reliable system of registration of deaths, our rates of infant mortality would be at once available for comparison with all States and countries possessing reliable registration, just as our general mortality statistics were raised to this position by the law providing for the immediate registration of deaths which took effect on August 29, 1897. A satisfactory law for the registration of births is thus a necessary complement to the law providing for the immediate registration of deaths, in order that the data obtained under the latter may be properly stated for sanitary use.



**Table 55.**—*Exhibiting for the State and counties, by sex, the number of deaths at each five-year period of age, and at each year of age under five years, during the year 1896. (Stillbirths included.)*

State and counties.	Sex.	Total deaths at all ages 1896.*	Still-born.	Ages in years.					Ages in five-year periods.																				
				Under 1 year.*	1.	2.	3.	4.	Under 5 years.*	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80 and over.				
State.....	Total.....	21,983	1,254	4,098	884	485	305	263	6,085	708	523	759	950	875	745	738	687	721	859	852	1,044	1,139	1,238	1,102	1,377	290			
	Males.....	11,807	687	2,313	446	265	155	138	3,317	403	264	347	353	413	349	353	359	378	466	494	638	645	708	683	732	148			
	Females.....	10,119	530	1,780	438	220	150	125	2,713	305	259	412	596	462	396	385	328	343	393	358	406	494	530	440	585	107			
	Unknown.....	57	47	5					5																	5			
Alcona.....	Total.....	33	3	8	4	1	1		14		1	2	3	1				1	2		2	3			1				
	Males.....	16	1	4	1				5		1	2	2	1				1	1		2	2			1				
	Females.....	17	2	4	3	1	1		9													1							
	Unknown.....																												
Alger.....	Total.....	28	1	12	3				15		2	1		1	1		2	3	2										
	Males.....	20		10	2				12																				
	Females.....	8	1	2	1				3		2	1		1	1		2	3	2										
	Unknown.....																												
Allegan.....	Total.....	378	20	49	14	4	1	1	69	9	6	16	14	16	15	9	11	11	19	17	24	28	31	24	32	7			
	Males.....	196	11	26	4	4	1	1	36	5	4	7	3	8	6	4	3	3	8	8	10	19	22	19	22	5			
	Females.....	180	7	23	10				33	4	2	9	11	8	9	5	8	8	11	9	14	9	9	12	10	2			
	Unknown.....	2	2																										
Alpena.....	Total.....	156	10	50	9	4		2	65	1	4	2	2	6	1	10	6	5	13	6	6	8	1	5	5				
	Males.....	87	5	29	5	2		1	37	1	3	2		2	1	2	2	4	9	5	3	7		2	2				
	Females.....	69	5	21	4	2		1	28		1		2	4		8	4	1	4	1	3	1	1	3	3				
	Unknown.....																												
Antrim.....	Total.....	91	5	23	8	3	2		36	3	1	1	5	2	3	2	2		4	1	4	4	5	7	5	1			
	Males.....	39	2	9	4	1			14			1	1	1	1	1	1		3	1	1	2	2	5	2				
	Females.....	52	3	14	4	2	2		22	3	1	1	3	1	2	1			1		3	3	3	3	3				
	Unknown.....																												
Arenac.....	Total.....	50		9	1	2	1		13	3	3		5		1	2	3	1	2	1	3	3	5	2	1				
	Males.....	27		6					6	3	3		5		1	2	2	1	1	1	3	3	3	2	1				
	Females.....	23		3	1	2	1		7						1	2	1				1	1	2	2					
	Unknown.....																												
Baraga.....	Total.....	40	3	8	2			1	11	1		3	2	4	1	1	2		2		2	2	2	1	1				
	Males.....	20	1	4	1				6	1			1	2	1				2		1	2	2						
	Females.....	20	2	4	1			1	5			2	1	2	3		2												
	Unknown.....																												
Barry.....	Total.....	183	12	18	1	1	1		21	5		4	11	2	4	6	10	8	9	10	10	12	20	15	23	1			
	Males.....	103	11	10					12	4		3	1	1	2	2	4	5	6	5	6	6	13	7	14	1			
	Females.....	80	1	8	1	1	1		9	1		1	10	1	1	3	4	3	3	5	4	6	17	8	9				
	Unknown.....																												

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Bay	Total.....	535	19	129	29	24	7	12	201	41	14	19	23	21	12	24	16	14	27	18	15	16	13	15	23	6
	Males.....	298	13	75	11	7	5	8	106	27	9	8	9	13	3	14	9	6	16	10	11	12	8	11	10	3
	Females.....	236	5	54	18	17	2	4	95	14	5	11	14	8	9	10	7	8	9	8	4	4	5	4	13	3
Benzie	Total.....	78	4	23	2	1	1	1	27	1	1	2	3	3	2	3	2	5	4	2	4	7	3	2	4	1
	Males.....	33	1	12	1	1	1	1	13	1	1	1	1	1	1	1	1	2	2	1	3	4	2	1	2	1
	Females.....	45	3	11	2	1	1	1	14	1	1	1	2	2	1	2	1	3	2	2	1	3	1	1	2	1
Berrien	Total.....	387	17	46	11	4	8	5	74	15	9	19	16	18	16	20	7	15	14	13	23	29	25	31	22	4
	Males.....	202	5	29	7	3	4	2	45	7	2	8	7	10	8	10	5	7	7	8	15	18	12	18	8	2
	Females.....	179	6	17	4	1	4	3	29	8	7	11	9	8	8	10	2	8	7	5	8	11	13	13	14	2
Branch	Total.....	248	14	21	3	4	1	3	32	6	4	7	9	8	10	7	12	3	12	12	20	22	21	21	24	4
	Males.....	117	5	10	3	2	1	1	16	1	2	3	4	4	3	3	6	2	3	5	15	15	9	8	11	2
	Females.....	131	9	11	2	2	2	2	16	5	2	4	5	4	7	4	6	1	9	7	5	7	12	13	13	2
Calhoun	Total.....	411	29	42	8	5	2	2	59	10	11	9	15	7	14	11	12	13	15	19	28	19	42	52	43	3
	Males.....	236	20	25	6	3	2	2	38	5	5	6	5	2	7	4	7	8	9	12	18	11	24	30	24	1
	Females.....	170	5	17	2	2	2	2	21	5	6	3	10	5	7	7	5	5	6	7	10	8	18	22	19	1
Cass	Total.....	185	6	37	8	3	1	1	49	2	7	6	6	5	7	4	5	8	6	7	11	12	19	11	14	---
	Males.....	92	3	21	3	1	1	1	25	1	3	4	2	2	1	1	2	3	1	4	8	6	9	9	8	---
	Females.....	93	3	16	5	2	1	1	24	1	4	2	4	3	6	3	3	5	5	3	3	6	10	2	6	---
Charlevoix	Total.....	72	3	17	3	1	1	1	20	1	1	1	1	1	2	2	1	1	1	2	4	4	7	6	5	1
	Males.....	41	3	10	1	1	1	1	11	1	1	1	1	1	1	1	1	1	1	2	3	3	5	5	3	1
	Females.....	31	---	7	2	---	---	---	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Cheboygan	Total.....	118	12	27	6	1	1	2	37	1	2	8	3	5	2	3	6	2	7	5	5	4	6	6	4	---
	Males.....	65	10	12	3	1	1	1	17	1	1	1	2	1	2	1	1	1	1	4	4	1	3	4	3	---
	Females.....	53	2	15	3	---	---	---	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Chippewa	Total.....	200	6	61	17	4	3	1	86	9	5	13	7	9	6	5	5	5	4	3	7	3	7	6	7	7
	Males.....	110	4	37	7	3	1	1	48	3	1	3	4	8	4	2	3	4	3	6	1	1	5	3	4	4
	Females.....	90	2	24	10	1	2	1	38	6	4	10	3	1	2	3	2	1	1	3	6	2	2	3	3	3
Clare	Total.....	45	2	15	2	---	---	---	17	1	5	1	2	3	2	---	---	---	4	2	2	1	1	1	1	2
	Males.....	21	1	7	---	---	---	---	8	1	3	1	2	1	2	---	---	---	1	3	2	---	---	---	---	---
	Females.....	24	1	8	---	---	---	---	9	---	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Clinton	Total.....	232	6	33	5	4	1	---	43	6	7	5	11	10	7	9	8	4	6	7	12	22	24	19	5	---
	Males.....	123	2	21	2	1	---	---	25	3	4	1	6	6	2	4	5	3	4	2	7	15	14	16	8	2
	Females.....	107	4	12	3	3	---	---	17	3	3	4	5	4	5	5	3	4	5	5	5	6	8	8	11	3
Crawford	Total.....	22	2	6	---	---	---	---	9	1	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Males.....	9	2	3	---	---	---	---	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Females.....	13	---	3	---	---	---	---	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

\* Stillbirths included.

† Stillbirths not included.



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Huron.....	Total.....	259	15	68	10	10	5	5	98	13	9	10	14	5	8	5	9	7	6	7	9	9	12	11	3
	Males.....	149	7	45	4	7	5	4	65	6	4	5	2	4	4	4	4	3	4	5	5	8	10	2	
	Females.....	110	8	23	6	3	---	---	33	7	4	7	6	9	3	1	5	4	2	3	4	4	1	1	
Ingham.....	Total.....	380	25	53	14	3	1	2	73	9	8	14	15	8	18	16	7	10	19	22	30	26	32	5	
	Males.....	196	15	30	8	---	---	---	39	5	3	4	6	5	4	6	7	3	17	10	11	18	15	5	
	Females.....	181	9	21	6	3	1	2	32	4	5	10	8	10	4	12	9	4	8	12	11	8	17	---	
Ionia.....	Total.....	307	15	30	6	6	1	3	46	3	3	18	13	15	12	24	10	6	17	15	17	23	28	2	
	Males.....	146	9	12	4	4	---	---	20	2	1	6	4	9	4	13	7	3	9	8	4	5	14	2	
	Females.....	161	6	18	2	2	1	3	26	1	2	12	9	6	8	11	3	3	4	7	12	13	9	10	
Iosco.....	Total.....	98	11	25	3	1	---	---	29	2	2	3	5	4	4	4	2	5	4	3	5	3	1	7	
	Males.....	60	8	18	---	---	---	---	18	2	1	1	2	---	---	---	---	---	---	---	1	2	3	1	
	Females.....	38	3	7	3	1	---	---	11	---	1	1	1	5	1	2	2	2	2	2	2	---	---	1	
Iron.....	Total.....	64	11	15	3	---	---	---	20	1	2	---	2	3	5	4	2	2	2	3	1	1	1	3	
	Males.....	39	5	8	---	---	---	---	9	1	1	---	2	2	5	2	1	1	---	---	1	1	1	3	
	Females.....	25	6	7	3	---	---	---	11	---	1	---	---	---	---	---	---	---	---	---	---	---	---	---	
Isabella.....	Total.....	156	6	28	6	3	1	4	42	8	4	5	9	8	5	7	4	5	11	8	4	8	6	6	
	Males.....	81	4	16	4	2	---	---	25	4	1	3	3	1	2	2	2	7	3	6	2	5	3	4	
	Females.....	75	2	12	2	1	1	1	17	4	3	2	6	7	3	5	2	4	2	2	1	2	3	2	
Jackson.....	Total.....	496	24	60	11	10	10	5	96	20	12	23	12	17	15	15	13	19	26	32	26	33	35	36	
	Males.....	259	14	32	7	4	6	2	51	14	7	7	1	7	9	7	5	9	17	15	13	21	18	10	
	Females.....	237	10	28	4	6	4	3	45	6	5	16	11	10	6	8	8	10	9	18	17	13	17	9	
Kalamazoo.....	Total.....	414	22	42	8	3	1	1	55	3	8	16	16	20	18	17	18	20	20	32	28	37	40	5	
	Males.....	222	12	23	4	2	---	---	39	2	6	7	9	8	10	8	14	11	9	13	19	14	24	1	
	Females.....	192	10	19	4	1	1	1	26	1	2	9	7	12	8	9	10	6	9	8	13	14	13	4	
Kalkaska.....	Total.....	34	5	3	2	1	1	1	8	1	1	1	1	1	3	2	3	1	1	1	1	1	1	3	
	Males.....	17	4	1	1	1	---	---	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	Females.....	16	1	2	1	---	---	---	5	1	1	1	1	1	2	1	1	1	1	1	1	1	1	---	
Kent.....	Total.....	1,181	94	214	30	14	9	12	288	34	31	46	53	45	46	38	43	45	52	63	67	58	47	70	4
	Males.....	638	46	124	25	9	3	8	169	15	13	13	23	17	18	19	23	23	37	33	40	39	28	43	3
	Females.....	538	44	89	14	5	6	4	118	19	18	33	30	28	28	19	20	22	15	24	27	19	19	27	1
Keweenaw.....	Total.....	27	5	9	---	---	---	---	9	3	---	---	---	---	2	1	---	---	1	2	1	---	---	---	1
	Males.....	16	4	5	5	---	---	---	5	2	---	---	---	---	1	---	---	---	---	---	1	---	---	---	1
	Females.....	11	1	4	---	---	---	---	4	1	---	---	---	---	1	1	---	1	1	1	---	---	---	---	---
Lake.....	Total.....	35	4	8	1	---	---	---	11	---	4	2	---	---	3	---	---	---	2	2	1	---	---	---	1
	Males.....	17	2	4	1	---	---	---	6	---	2	1	1	---	1	---	---	---	1	1	1	---	---	---	1
	Females.....	18	---	---	---	---	---	---	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

\* Stillbirths included.

† Stillbirths not included.



## DEATHS BY COUNTIES, SEX AND AGES

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Mecosta.....	Total.....	154	10	30	4	1	1	2	38	6	2	8	11	8	3	10	3	8	4	8	12	7	10	1	5	---
	Males.....	89	8	18	2	1	1	1	22	4	2	2	6	2	1	5	2	6	2	4	10	4	9	1	---	
	Females.....	64	1	12	2	---	---	---	16	2	---	6	5	6	---	---	---	2	2	4	2	3	---	---	5	
Menominee.....	Total.....	343	35	100	24	13	9	5	151	21	9	14	16	9	12	10	10	7	6	4	14	4	1	4	7	9
	Males.....	195	24	56	12	8	7	4	87	7	4	7	4	5	9	8	5	5	3	1	12	2	---	3	3	7
	Females.....	145	9	44	12	5	2	1	64	14	5	10	9	4	3	2	5	2	3	3	2	2	1	1	4	1
Midland.....	Total.....	108	6	26	6	3	2	---	37	6	4	3	5	2	5	---	7	4	1	3	4	4	5	4	8	---
	Males.....	66	5	17	2	1	1	---	21	3	2	1	3	---	3	---	4	2	1	2	2	4	5	4	4	---
	Females.....	43	1	9	4	2	1	---	16	3	2	2	3	1	2	---	4	2	---	1	2	---	---	---	---	---
Missaukee.....	Total.....	46	8	10	3	---	---	---	14	2	1	1	1	1	1	2	1	2	2	3	1	---	2	1	2	1
	Males.....	25	5	3	3	---	---	---	7	2	1	1	1	1	1	2	1	2	2	3	1	---	---	2	1	1
	Females.....	21	3	7	---	---	---	---	7	---	---	---	---	---	---	---	1	1	---	---	2	---	2	1	---	---
Monroe.....	Total.....	333	17	56	10	6	5	2	79	12	4	12	12	16	11	9	12	11	9	9	12	24	20	29	30	5
	Males.....	165	5	30	6	4	4	1	45	6	4	4	3	6	6	5	5	3	6	3	6	11	9	20	17	3
	Females.....	167	11	26	4	2	1	1	34	6	4	8	9	10	5	4	7	6	6	6	6	13	11	9	13	2
Montcalm.....	Total.....	292	18	33	15	4	2	3	57	16	5	10	17	9	10	8	7	14	11	18	11	19	19	12	27	4
	Males.....	130	13	14	6	3	---	---	24	8	1	4	5	3	1	4	4	2	5	11	6	7	8	6	15	3
	Females.....	161	4	19	9	1	2	2	33	8	4	6	12	6	9	4	3	12	6	7	5	12	11	6	12	1
Montmorency.....	Total.....	31	3	13	1	2	---	---	16	2	1	3	1	---	1	---	1	1	1	---	---	---	---	---	---	1
	Males.....	18	2	8	---	---	---	---	10	2	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1
	Females.....	13	1	5	1	---	---	---	6	---	---	3	1	---	1	---	1	1	1	---	---	---	---	---	---	---
Muskegon.....	Total.....	361	22	55	16	8	13	8	100	23	11	11	11	10	14	9	13	17	16	17	15	13	19	19	19	2
	Males.....	184	14	26	11	7	4	5	52	11	3	8	4	3	7	4	5	11	7	10	8	9	10	6	10	2
	Females.....	171	2	30	5	1	9	3	48	12	8	3	7	7	7	5	8	6	9	7	7	4	9	13	9	---
Newaygo.....	Total.....	111	8	17	4	1	---	1	23	3	3	3	4	5	7	3	3	6	---	3	6	9	6	9	10	---
	Males.....	59	5	8	3	---	---	---	11	2	3	---	2	3	3	2	1	5	---	1	2	5	1	7	6	---
	Females.....	52	3	9	1	1	---	1	12	1	---	3	2	2	4	1	2	1	---	2	4	4	5	2	4	---
Oakland.....	Total.....	370	7	33	4	7	6	2	82	7	9	11	14	11	8	14	12	15	28	17	27	27	33	35	40	5
	Males.....	195	5	19	2	6	3	---	30	4	2	3	4	4	3	6	4	6	13	9	16	14	18	23	28	3
	Females.....	175	2	14	2	1	3	2	22	3	7	8	10	7	5	8	8	9	13	8	11	13	15	12	12	2
Oceana.....	Total.....	135	8	22	5	2	---	3	32	3	1	9	11	2	3	3	5	6	8	2	9	10	8	9	5	1
	Males.....	78	6	10	1	2	---	2	15	1	1	4	6	1	---	3	2	3	2	2	5	9	8	8	3	1
	Females.....	57	2	12	4	---	---	1	17	2	---	5	5	1	3	3	2	3	6	4	1	---	1	---	2	---
Ogemaw.....	Total.....	18	1	5	---	---	---	---	5	1	---	---	1	1	1	1	1	3	1	---	1	---	---	1	---	---
	Males.....	13	1	3	---	---	---	---	3	1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	Females.....	5	---	2	---	---	---	---	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

\* Stillbirths included.

† Stillbirths not included.



DEATHS BY COUNTIES, SEX AND AGES

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Shiawassee	Total	224	5	22	11	1	3	2	39	13	6	11	7	6	7	15	13	6	9	9	6	12	25	19	5	15
	Males	114	2	14	2	1	3	1	20	4	4	6	3	3	3	5	3	2	7	5	8	14	13	3	11	1
	Females	108	2	8	9	1	1	1	19	9	2	5	4	3	3	6	10	4	2	4	4	11	6	2	4	4
St. Clair	Total	441	13	75	13	9	6	7	110	13	10	21	18	16	15	18	8	15	12	32	26	37	29	20	34	4
	Males	233	4	37	6	5	2	1	51	5	5	12	5	8	7	7	5	9	8	15	15	21	12	19	4	
	Females	207	8	38	7	4	4	6	59	8	5	9	13	8	8	11	3	6	4	7	11	16	8	8	15	
St. Joseph	Total	250	6	20	5	1	2	1	29	1	7	9	8	10	5	7	6	7	19	11	19	15	25	32	33	1
	Males	138	3	12	4	1	1	1	18	---	5	3	2	4	1	3	4	2	12	5	11	11	16	18	19	1
	Females	111	2	8	1	1	1	1	11	1	2	6	6	6	4	4	2	5	7	6	8	4	9	14	14	---
Tuscola	Total	257	11	39	8	6	3	2	58	5	5	6	12	11	6	18	9	13	9	17	17	22	13	6	16	3
	Males	112	4	16	6	3	1	1	25	4	1	1	5	4	1	5	2	5	3	8	12	8	7	2	12	2
	Females	145	7	23	2	3	2	2	32	1	4	5	7	7	5	13	7	8	6	9	5	14	6	4	4	1
Van Buren	Total	307	13	33	14	3	2	2	54	6	6	12	12	14	7	10	4	8	20	10	18	19	38	27	37	2
	Males	167	4	17	3	2	1	1	24	2	4	6	6	9	1	3	2	4	10	5	10	12	24	19	21	1
	Females	139	8	16	11	1	1	1	30	4	2	6	6	5	6	7	2	4	10	5	8	7	14	8	6	1
Washtenaw	Total	421	6	58	7	7	3	2	77	5	5	13	19	18	10	10	9	17	10	21	30	25	42	39	60	5
	Males	236	5	35	4	4	1	2	46	4	2	8	7	7	8	5	4	6	6	10	16	15	27	23	35	2
	Females	184	1	22	3	3	2	1	30	1	3	5	12	11	2	5	5	11	4	11	14	10	15	16	25	3
Wayne	Total	4,014	298	924	201	134	90	62	1,411	173	94	129	195	165	157	140	178	103	141	135	143	157	153	112	146	54
	Males	2,191	144	524	103	71	44	34	776	97	56	67	80	88	68	68	89	48	87	88	93	86	74	67	73	22
	Females	1,822	124	400	98	63	46	28	635	76	38	62	115	77	69	72	49	55	54	47	50	71	79	45	73	31
Wexford	Total	117	9	36	3	1	2	1	43	3	3	6	6	6	3	3	2	3	5	1	7	3	8	3	3	---
	Males	62	5	22	2	1	2	1	28	3	---	4	2	1	1	1	1	1	3	2	3	1	5	3	2	---
	Females	54	3	14	1	1	1	1	15	---	3	2	4	5	2	2	1	3	2	1	4	2	3	1	1	---

\* Stillbirths included.

† Stillbirths not included.



**Table 56.**—*Exhibiting, by sex, and by ages in periods of years, the number of persons returned as having died in Michigan during the year 1896. (Stillbirths included.)*

Ages in periods of years.	Sex.	Year, 1896.	Months, 1896.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
All ages.....	Total.....	21,983	1,434	1,558	1,819	1,918	1,672	1,585	1,775	2,071	2,057	1,938	1,915	2,185	56
	Males.....	11,807	750	848	949	992	865	876	957	1,151	1,146	1,030	1,027	1,186	30
	Females.....	10,119	681	707	865	921	804	703	812	913	911	904	882	993	23
	Unknown.....	57	3	3	5	5	3	6	6	7	-----	4	6	6	3
Stillbirths.....	Total.....	1,254	86	86	99	112	106	95	100	97	108	102	120	138	5
	Males.....	687	42	49	51	57	62	53	56	55	54	56	64	85	3
	Females.....	520	41	35	44	51	41	37	38	36	54	42	52	48	1
	Unknown.....	47	3	2	4	4	3	5	6	6	-----	4	4	5	1
Under 1*.....	Total.....	4,098	193	256	292	286	291	274	411	563	472	330	343	386	1
	Males.....	2,313	105	143	160	156	164	151	240	308	284	169	202	230	1
	Females.....	1,780	88	112	132	129	127	123	171	255	188	161	139	155	-----
	Unknown.....	5	-----	1	-----	1	-----	-----	-----	-----	-----	-----	2	1	-----
Under 5*.....	Total.....	6,035	320	388	431	442	428	411	559	744	656	513	530	608	5
	Males.....	3,317	169	210	227	239	233	226	317	406	382	257	303	347	1
	Females.....	2,713	151	177	204	202	195	185	242	338	274	256	225	260	4
	Unknown.....	5	-----	1	-----	1	-----	-----	-----	-----	-----	-----	2	1	-----
Under 1†.....	Total.....	5,352	279	342	391	398	397	369	511	660	580	432	463	524	6
	Males.....	3,000	147	192	211	213	226	204	296	363	338	225	266	315	4
	Females.....	2,300	129	147	176	180	168	160	209	291	242	203	191	203	1
	Unknown.....	52	3	3	4	5	3	5	6	6	-----	4	6	6	1
Under 5†.....	Total.....	7,289	406	474	530	554	534	506	659	841	764	615	650	746	10
	Males.....	4,004	211	259	278	296	295	279	373	461	436	313	367	432	4
	Females.....	3,233	192	212	248	253	236	222	280	374	328	298	277	308	5
	Unknown.....	52	3	3	4	5	3	5	6	6	-----	4	6	6	1
5 to 9.....	Total.....	768	50	54	49	66	43	52	55	63	71	87	85	93	-----
	Males.....	403	30	28	19	43	18	33	28	41	34	45	42	42	-----
	Females.....	365	20	26	30	23	25	19	27	22	37	42	43	51	-----
10 to 14.....	Total.....	523	35	38	49	37	45	30	51	46	49	50	46	46	1
	Males.....	264	14	15	26	19	22	18	28	19	28	23	24	28	-----
	Females.....	259	21	23	23	18	23	12	23	27	21	27	22	18	1
15 to 19.....	Total.....	759	34	46	76	84	65	49	62	70	82	58	51	82	-----
	Males.....	347	16	18	35	42	32	20	29	35	35	28	18	39	-----
	Females.....	412	18	28	41	42	33	29	33	35	47	30	33	43	-----
20 to 24.....	Total.....	959	61	76	65	80	93	77	77	98	98	76	76	96	2
	Males.....	393	18	40	25	34	21	29	42	44	48	31	29	31	1
	Females.....	566	43	36	40	46	72	37	35	54	45	45	47	65	1
25 to 29.....	Total.....	875	55	65	101	87	74	60	66	91	51	76	73	73	3
	Males.....	413	29	35	40	39	33	29	28	47	26	43	29	33	2
	Females.....	462	26	30	61	48	41	31	38	44	25	33	44	40	1
30 to 34.....	Total.....	745	64	40	59	61	71	70	66	60	72	59	51	71	1
	Males.....	349	29	16	28	30	31	37	31	28	37	30	24	28	-----
	Females.....	396	35	24	31	31	40	33	35	32	35	29	27	43	1
35 to 39.....	Total.....	786	76	60	69	75	51	56	64	51	61	81	77	65	-----
	Males.....	353	37	32	28	28	20	25	29	24	23	38	43	26	-----
	Females.....	433	39	28	41	47	31	31	35	27	38	43	34	39	-----
40 to 44.....	Total.....	687	28	53	59	74	64	46	42	59	56	69	53	83	1
	Males.....	359	21	24	37	30	35	25	22	26	29	29	26	54	1
	Females.....	328	7	29	22	44	29	21	20	33	27	40	27	29	-----
45 to 49.....	Total.....	721	53	45	71	84	52	54	50	71	60	62	46	69	4
	Males.....	378	22	27	45	43	28	32	26	41	26	33	21	32	2
	Females.....	343	31	18	26	41	24	22	24	30	34	29	25	37	2

\* Stillbirths not included.

† Stillbirths included.

## DEATHS BY PERIODS OF AGE, SEX AND MONTHS 105

**Table 56.**—CONCLUDED.—*Deaths by periods of age, sex and months.*

Ages in periods of years.	Sex.	Year, 1896.	Months, 1896.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
50 to 54.....	Total.....	859	57	80	71	91	61	71	61	71	68	69	64	93	2
	Males.....	466	29	49	37	50	28	36	26	35	40	39	42	55	2
	Females....	393	28	31	34	41	33	35	35	36	28	30	22	38	2
55 to 59.....	Total.....	852	62	57	73	82	60	57	69	77	81	70	75	87	2
	Males.....	494	28	35	45	44	33	35	37	44	54	48	41	48	2
	Females....	358	34	22	28	38	27	22	32	33	27	22	34	39	2
60 to 64.....	Total.....	1,044	78	77	86	85	91	75	85	77	111	103	83	91	2
	Males.....	638	42	41	50	51	54	43	48	50	75	65	63	55	1
	Females..	406	36	36	36	34	37	32	37	27	36	38	20	36	1
65 to 69.....	Total.....	1,139	96	83	86	112	91	83	81	89	101	104	98	115	---
	Males.....	645	55	52	54	57	48	49	53	48	60	56	49	64	---
	Females....	494	41	31	32	55	43	34	28	41	41	48	49	51	---
70 to 74.....	Total.....	1,238	80	87	106	108	92	86	109	99	122	119	110	117	3
	Males.....	708	43	58	53	62	55	50	61	66	70	64	57	66	3
	Females....	530	37	29	53	46	37	36	48	33	52	55	53	51	---
75 to 79.....	Total.....	1,102	76	98	109	101	69	86	79	95	76	93	108	110	2
	Males.....	653	47	48	58	56	38	55	44	69	49	58	58	72	1
	Females....	449	29	50	51	45	31	31	35	26	27	35	50	38	1
80 to 84.....	Total.....	781	57	68	57	72	54	78	41	57	71	71	83	71	1
	Males.....	444	38	42	35	34	33	41	22	38	37	44	50	30	---
	Females....	337	19	26	22	38	21	37	19	19	34	27	33	41	1
85 to 89.....	Total.....	409	28	20	62	31	29	31	24	26	32	49	40	37	---
	Males.....	249	15	11	39	13	20	22	14	15	19	35	25	21	---
	Females....	160	13	9	23	18	9	9	10	11	13	14	15	16	---
90 to 94.....	Total.....	139	14	10	18	10	8	10	7	13	7	9	17	15	1
	Males.....	71	10	4	4	7	6	7	1	9	2	1	8	12	---
	Females....	68	4	6	14	3	2	3	6	4	5	8	9	3	1
95 to 99.....	Total.....	39	3	4	---	1	4	3	2	4	6	2	9	1	---
	Males.....	23	2	2	---	1	3	3	1	4	3	---	3	1	---
	Females....	16	1	2	---	---	1	---	1	---	3	2	6	---	---
100 and over.	Total.....	9	1	1	---	1	---	---	1	---	1	1	2	1	---
	Males.....	5	1	1	---	1	---	---	---	---	1	---	1	---	---
	Females....	4	---	---	---	---	---	---	1	---	---	1	1	---	---
Unknown.....	Total.....	260	20	22	23	22	21	16	24	13	22	15	18	23	21
	Males.....	148	13	11	13	12	12	8	14	7	14	7	7	17	13
	Females....	107	7	11	9	10	9	7	10	5	8	8	11	6	6
	Unknown....	5	---	---	1	---	---	1	---	1	---	---	---	---	2

Tables 56 and 57 give details in regard to the number of persons of each sex who died at all ages during each month of the year 1896. Table 56 is condensed from Table 57, and states the ages in periods of five years. Table 58 gives the number for each year of age separately, and also the number of deaths at each month of age for children dying under the age of one year. These tables, as printed in the present Report and those for several years preceding, differ from those previously published in that the number of stillbirths is separately stated, and the number of deaths under one year of age, and also under five years of age, is stated both inclusive and exclusive of stillbirths. The former statement is made in order that the data may be readily comparable with former Reports; the latter, because for many purposes it is important to eliminate stillbirths, as, when included, they unduly increase the number of deaths for the first month and for the first year of age as compared with those of subsequent years.

**Table 57.**—*Exhibiting, by sex and by months, the number returned as having died in Michigan during the year 1896, at each and every age, the age stated in twelfths of a year for those under one year, and in years for those over one year of age. (Stillbirths included.)*

Ages in years.	Sex.	Year, 1896.	Months, 1896.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
All ages...	Total.....	21,983	1,434	1,558	1,819	1,918	1,872	1,585	1,775	2,071	2,067	1,938	1,915	2,185	56
	Males.....	11,907	750	848	949	992	865	86	957	1,151	1,146	1,080	1,027	1,186	30
	Females.....	10,119	681	707	865	921	804	703	812	913	911	904	882	993	23
	Unknown.....	57	3	3	5	5	3	6	6	7	-----	4	6	6	3
Stillbirths.	Total.....	1,254	86	86	99	112	106	95	100	97	108	102	120	138	5
	Males.....	687	42	49	51	57	62	53	56	55	54	56	64	85	3
	Females.....	520	41	35	44	51	41	37	38	36	54	42	52	48	1
	Unknown.....	47	3	2	4	4	3	5	6	6	-----	4	4	5	1
Under 1-12*	Total.....	1,433	76	102	125	124	123	86	109	124	144	123	138	159	-----
	Males.....	834	44	59	68	76	66	46	72	72	87	73	78	93	-----
	Females.....	595	32	42	57	48	57	40	37	52	57	50	58	65	-----
	Unknown.....	4	-----	1	-----	-----	-----	-----	-----	-----	-----	2	1	-----	-----
Under 1-12†	Total.....	2,697	162	188	224	236	229	181	209	221	252	225	258	297	5
	Males.....	1,521	86	108	119	133	128	99	128	127	141	129	142	178	3
	Females.....	1,115	73	77	101	99	98	77	75	89	111	92	110	113	1
	Unknown.....	51	3	3	4	4	3	5	6	6	-----	4	6	6	1
1-12.....	Total.....	421	24	24	32	29	24	33	43	43	54	37	39	38	1
	Males.....	232	9	16	16	12	11	20	23	25	34	21	24	20	1
	Females.....	188	15	8	16	16	13	13	20	18	20	16	15	18	-----
	Unknown.....	1	-----	-----	-----	1	-----	-----	-----	-----	-----	-----	-----	-----	-----
2-12.....	Total.....	341	11	19	20	21	24	28	34	52	46	35	25	26	-----
	Males.....	192	5	12	8	10	16	17	16	32	29	13	14	20	-----
	Females.....	149	6	7	12	11	8	11	18	20	17	22	11	6	-----
3-12.....	Total.....	350	16	21	17	14	28	22	40	65	38	29	27	33	-----
	Males.....	204	7	14	10	9	19	14	25	33	26	12	13	22	-----
	Females.....	146	9	7	7	5	9	8	15	32	12	17	14	11	-----
4-12.....	Total.....	287	18	20	5	22	14	22	41	50	32	19	22	22	-----
	Males.....	163	11	14	2	9	7	14	21	28	22	8	14	13	-----
	Females.....	124	7	6	3	13	7	8	20	22	10	11	8	9	-----
5-12.....	Total.....	250	9	16	14	9	12	21	33	47	35	19	17	18	-----
	Males.....	143	5	6	10	5	9	11	20	26	18	10	11	12	-----
	Females.....	107	4	10	4	4	3	10	13	21	17	9	6	6	-----
6-12.....	Total.....	270	10	12	20	13	11	14	36	48	35	13	29	29	-----
	Males.....	158	5	8	15	6	8	4	21	26	18	8	22	17	-----
	Females.....	112	5	4	5	7	3	10	15	22	17	5	7	12	-----
7-12.....	Total.....	178	5	10	14	18	8	9	17	26	29	13	13	16	-----
	Males.....	95	2	4	8	8	3	6	7	11	21	7	10	8	-----
	Females.....	83	3	6	6	10	5	3	10	15	8	6	3	8	-----
8-12.....	Total.....	152	3	6	9	11	11	8	15	36	16	10	10	17	-----
	Males.....	69	3	2	1	7	7	4	7	18	3	4	4	9	-----
	Females.....	83	-----	4	8	4	4	4	8	18	13	6	6	8	-----
9-12.....	Total.....	164	10	13	13	15	15	9	17	27	16	12	8	9	-----
	Males.....	94	7	3	6	8	7	5	13	17	10	9	4	5	-----
	Females.....	70	3	10	7	7	8	4	4	10	6	3	4	4	-----
10-12.....	Total.....	141	9	7	13	8	11	9	14	26	13	12	9	10	-----
	Males.....	67	6	3	8	5	4	4	7	10	9	3	3	5	-----
	Females.....	74	3	4	5	3	7	5	7	16	4	9	6	5	-----
11-12.....	Total.....	111	2	6	10	2	10	13	12	19	14	8	6	9	-----
	Males.....	62	1	2	8	1	7	6	8	10	7	1	5	6	-----
	Females.....	49	1	4	2	1	3	7	4	9	7	7	1	3	-----

\* Stillbirths not included.

† Stillbirths included.

## DEATHS BY SEPARATE AGES, SEX AND MONTHS

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Table 57.—CONTINUED.—Deaths by ages, sex and months.

Ages in years.	Sex.	Year, 1896.	Months, 1896.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
1.....	Total.....	884	46	61	62	69	65	69	82	115	86	72	74	81	2
	Males.....	446	24	33	28	33	28	36	40	62	50	33	38	41	
	Females.....	438	22	28	34	36	37	33	42	53	36	39	36	40	
2.....	Total.....	485	36	31	34	42	35	31	39	33	47	46	48	62	1
	Males.....	265	17	15	19	27	21	15	23	18	21	24	30	35	
	Females.....	220	19	16	15	15	14	16	16	15	26	22	18	27	1
3.....	Total.....	305	24	20	25	21	16	23	17	18	24	30	40	46	1
	Males.....	155	14	8	11	13	6	17	8	11	12	12	22	21	
	Females.....	150	10	12	14	8	10	6	9	7	12	18	18	25	1
4.....	Total.....	263	21	20	18	24	21	14	10	15	27	35	25	33	
	Males.....	138	9	11	9	10	14	7	6	7	15	19	11	20	
	Females.....	125	12	9	9	14	7	7	4	8	12	16	14	13	
5.....	Total.....	191	13	12	11	15	8	13	17	13	21	28	22	18	
	Males.....	108	7	5	5	12	4	8	8	9	13	16	10	11	
	Females.....	83	6	7	6	3	4	5	9	4	8	12	12	7	
6.....	Total.....	192	12	13	10	15	12	8	10	17	19	27	19	30	
	Males.....	97	7	6	4	9	4	4	6	10	8	14	13	12	
	Females.....	95	5	7	6	6	8	4	4	7	11	13	6	18	
7.....	Total.....	136	10	8	8	16	9	15	12	6	9	13	18	12	
	Males.....	65	6	5	5	8	4	7	6	3	4	7	6	4	
	Females.....	71	4	3	3	8	5	8	6	3	5	6	12	8	
8.....	Total.....	139	9	14	12	12	7	6	6	13	13	16	15	16	
	Males.....	75	5	8	2	7	3	5	4	11	6	8	7	9	
	Females.....	64	4	6	10	5	4	1	2	2	7	8	8	7	
9.....	Total.....	110	6	7	8	8	7	10	10	14	9	3	11	17	
	Males.....	58	5	4	3	7	3	9	4	8	3	6	6	6	
	Females.....	52	1	3	5	1	4	1	6	6	6	3	5	11	
10.....	Total.....	105	7	9	5	8	9	6	13	9	8	12	7	12	
	Males.....	64	5	6	2	3	7	3	10	3	5	5	5	10	
	Females.....	41	2	3	3	5	2	3	3	6	3	7	2	2	
11.....	Total.....	92	4	2	7	8	11	3	7	10	8	5	10	17	
	Males.....	54	3	1	3	5	5	3	6	6	6	2	6	8	
	Females.....	38	1	1	4	3	6	6	1	4	2	3	4	9	
12.....	Total.....	117	9	10	7	6	8	7	13	13	9	14	11	10	
	Males.....	62	4	6	5	3	4	4	6	5	5	10	4	6	
	Females.....	55	5	4	2	3	4	3	7	8	4	4	7	4	
13.....	Total.....	84	7	9	8	6	8	3	10	6	11	8	7	1	
	Males.....	33	1	1	3	4	2	3	3	3	6	2	4	1	
	Females.....	51	6	8	5	2	6	6	7	3	5	6	3	..	
14.....	Total.....	125	8	8	22	9	9	11	8	8	13	11	11	6	1
	Males.....	51	1	1	13	4	4	5	3	2	6	4	5	3	3
	Females.....	74	7	7	9	5	5	6	5	6	7	7	6	3	..
15.....	Total.....	126	6	7	11	11	8	3	9	15	10	17	8	21	
	Males.....	66	3	2	9	6	5	1	5	7	6	9	3	10	
	Females.....	60	3	5	2	5	3	2	4	8	4	8	5	11	
16.....	Total.....	120	3	9	16	16	4	11	14	6	7	10	9	15	
	Males.....	51	2	6	6	8	1	4	5	2	4	4	3	6	
	Females.....	69	1	3	10	8	3	7	9	4	3	6	6	9	
17.....	Total.....	160	9	8	11	16	11	8	12	27	24	4	10	20	
	Males.....	68	5	2	3	6	5	6	6	12	6	3	2	12	
	Females.....	92	4	6	8	10	6	2	6	15	18	1	8	8	
18.....	Total.....	169	8	9	19	18	22	17	13	12	22	10	13	6	
	Males.....	83	3	4	12	9	13	5	7	7	9	5	7	2	
	Females.....	86	5	5	7	9	9	12	6	5	13	5	6	4	

Table 57.—CONTINUED.—Deaths by ages, sex and months.

Ages in years.	Sex.	Year, 1896.	Months, 1896.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
19.....	Total.....	184	8	13	19	23	20	10	14	10	19	17	11	20	..
	Males.....	79	3	4	5	13	8	4	6	7	10	7	3	9	..
	Females....	105	5	9	14	10	12	6	8	3	9	10	8	11	..
20.....	Total.....	178	10	11	13	22	20	5	9	17	19	15	14	22	1
	Males.....	65	4	4	6	6	4	2	4	9	12	3	4	6	1
	Females....	113	6	7	7	16	16	3	5	8	7	12	10	16	..
21.....	Total.....	200	13	22	9	17	19	9	10	22	25	12	18	24	..
	Males.....	83	4	15	1	11	4	7	6	11	8	5	4	7	..
	Females....	117	9	7	8	6	15	2	4	11	17	7	14	17	..
22.....	Total.....	185	15	10	16	15	22	12	22	21	14	12	7	19	..
	Males.....	73	5	6	3	7	5	6	12	7	9	5	3	5	..
	Females....	112	10	4	13	8	17	6	10	14	5	7	4	14	..
23.....	Total.....	213	10	18	17	18	13	17	20	19	24	19	17	21	..
	Males.....	86	2	7	8	8	3	6	10	8	12	10	7	5	..
	Females....	127	8	11	9	10	10	11	10	11	12	9	10	16	..
24.....	Total.....	183	13	15	10	8	19	23	16	19	11	18	20	10	1
	Males.....	86	3	8	7	2	5	8	10	9	7	8	11	8	..
	Females....	97	10	7	3	6	14	15	6	10	4	10	9	2	1
25.....	Total.....	164	6	14	21	15	12	11	9	19	10	18	17	11	1
	Males.....	83	4	9	9	9	5	6	2	10	5	11	7	5	1
	Females....	81	2	5	12	6	7	5	7	9	5	7	10	6	..
26.....	Total.....	186	15	18	18	18	18	15	16	21	6	15	16	10	..
	Males.....	94	9	7	11	7	9	7	8	11	5	8	6	6	..
	Females....	92	6	11	7	11	9	8	8	10	1	7	10	4	..
27.....	Total.....	168	11	11	20	22	12	8	12	18	12	15	13	14	..
	Males.....	69	6	7	6	6	3	5	7	9	5	8	3	4	..
	Females....	99	5	4	14	16	9	3	5	9	7	7	10	10	..
28.....	Total.....	205	13	12	26	20	16	13	20	24	13	12	12	24	..
	Males.....	88	4	5	9	11	8	4	8	10	5	8	5	11	..
	Females....	117	9	7	17	9	8	9	12	14	8	4	7	13	..
29.....	Total.....	152	10	10	16	12	16	13	9	9	10	16	15	14	2
	Males.....	79	6	7	5	6	8	7	3	7	6	8	8	7	1
	Females....	73	4	3	11	6	8	6	6	2	4	8	7	7	1
30.....	Total.....	130	15	5	11	14	12	12	10	13	8	12	8	10	..
	Males.....	54	4	2	5	7	5	6	6	4	3	6	4	2	..
	Females....	76	11	3	6	7	7	6	4	9	5	6	4	8	..
31.....	Total.....	141	8	10	7	4	15	21	15	14	13	5	11	18	..
	Males.....	62	3	4	2	3	6	11	6	8	6	2	4	7	..
	Females....	79	5	6	5	1	9	10	9	6	7	3	7	11	..
32.....	Total.....	166	16	8	16	13	14	10	11	15	22	13	11	17	..
	Males.....	85	11	2	9	6	7	6	7	6	13	7	5	6	..
	Females....	81	5	6	7	7	7	4	4	9	9	6	6	11	..
33.....	Total.....	155	12	10	10	12	17	13	15	9	16	19	7	14	1
	Males.....	76	7	4	7	6	9	7	7	6	8	8	2	5	..
	Females....	79	5	6	3	6	8	6	8	3	8	11	5	9	1
34.....	Total.....	153	13	7	15	18	13	14	15	9	13	10	14	12	..
	Males.....	72	4	4	5	8	4	7	5	4	7	7	9	8	..
	Females....	81	9	3	10	10	9	7	10	5	6	3	5	4	..
35.....	Total.....	176	9	13	18	15	7	14	14	14	21	18	23	10	..
	Males.....	88	7	5	6	10	3	8	9	8	8	10	11	3	..
	Females....	88	2	8	12	5	4	6	5	6	13	8	12	7	..
36.....	Total.....	168	13	16	12	14	9	9	20	13	14	20	15	13	..
	Males.....	73	4	12	6	4	2	4	9	6	2	10	8	6	..
	Females....	95	9	4	6	10	7	5	11	7	12	10	7	7	..

Table 57.—CONTINUED.—Deaths by ages, sex and months.

		Months, 1896.													
Ages in years.	Sex.	Year, 1896.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
37	Total	146	26	15	11	10	17	7	8	8	6	14	11	13	
	Males	70	10	7	5	3	8	5	5	4	3	8	7	5	
	Females	76	16	8	6	7	9	2	3	4	3	6	4	8	
38	Total	164	16	6	17	18	12	14	10	10	10	16	16	19	
	Males	63	10	1	6	6	5	4	3	4	5	4	8	7	
	Females	101	6	5	11	12	7	10	7	6	5	12	8	12	
39	Total	132	12	10	11	18	6	12	12	6	10	13	12	10	
	Males	59	6	7	5	5	2	4	3	2	5	6	9	5	
	Females	73	6	3	6	13	4	8	9	4	5	7	3	5	
40	Total	155	2	11	11	18	17	15	8	10	12	16	17	18	
	Males	77	1	4	6	3	7	11	6	6	8	5	8	12	
	Females	78	1	7	5	15	10	4	2	4	4	11	9	6	
41	Total	107	6	11	11	8	10	4	7	11	12	11	6	10	
	Males	61	5	7	7	5	6	1	4	4	6	6	5	5	
	Females	46	1	4	4	3	4	3	3	7	6	5	1	5	
42	Total	159	6	11	11	16	15	10	10	16	11	18	13	21	1
	Males	86	4	8	7	9	8	6	3	7	5	5	7	16	1
	Females	73	2	3	4	7	7	4	7	9	6	13	6	5	
43	Total	137	11	12	14	16	14	8	9	11	6	10	8	17	
	Males	68	8	4	10	4	9	3	4	3	3	5	5	13	
	Females	69	3	9	4	12	5	5	5	8	3	5	6	4	
44	Total	129	3	7	12	16	8	9	8	11	15	14	9	17	
	Males	67	3	1	7	9	5	4	5	6	7	8	4	8	
	Females	62		6	5	7	3	5	3	5	8	6	5	9	
45	Total	159	8	8	17	19	9	8	7	17	21	12	16	15	2
	Males	80	4	8	10	7	4	2	2	9	11	6	9	7	1
	Females	79	4		7	12	5	6	5	8	10	6	7	8	1
46	Total	138	13	9	12	14	9	12	10	13	14	17	5	10	
	Males	79	3	4	11	9	5	9	5	11	4	8	1	9	
	Females	59	10	5	1	5	4	3	5	2	10	9	4	1	
47	Total	151	13	8	13	19	11	13	9	12	12	13	7	19	2
	Males	77	7	5	8	11	6	7	4	6	4	6	4	8	1
	Females	74	6	3	5	8	5	6	5	6	8	7	3	11	1
48	Total	132	7	11	14	17	11	13	15	13	5	6	9	11	
	Males	71	2	6	7	9	7	10	9	6	3	4	3	5	
	Females	61	5	5	7	8	4	3	6	7	2	2	6	6	
49	Total	141	12	9	15	15	12	8	9	16	8	14	9	14	
	Males	71	6	4	9	7	6	4	6	9	4	9	4	3	
	Females	70	6	5	6	8	6	4	3	7	4	5	5	11	
50	Total	180	10	15	14	18	14	14	9	14	15	14	17	25	4
	Males	109	6	10	8	9	7	9	2	9	8	10	12	19	
	Females	71	4	5	6	9	7	5	7	5	7	4	5	6	1
51	Total	138	7	13	12	13	9	8	11	13	13	12	8	19	
	Males	79	3	8	8	8	5	6	6	8	8	7	5	9	
	Females	59	4	5	4	5	4	2	5	7	5	5	3	10	
52	Total	174	12	24	13	18	13	9	19	12	10	16	14	14	
	Males	94	6	15	5	12	6	5	11	6	7	6	10	5	
	Females	80	6	9	8	6	7	4	8	6	3	10	4	9	
53	Total	168	15	8	11	24	7	18	13	15	12	12	11	22	
	Males	81	4	3	3	11	3	11	4	7	8	6	5	16	
	Females	87	11	5	8	13	4	7	9	8	4	6	6	6	
54	Total	199	13	20	21	18	18	22	9	17	18	15	14	13	1
	Males	103	10	13	13	10	7	5	3	7	9	10	10	6	
	Females	96	3	7	8	8	11	17	6	10	9	5	4	7	1

Table 57.—CONTINUED.—Deaths by ages, sex and months.

Ages in years.	Sex.	Year, 1896.	Months, 1896.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
55.....	{ Total .....	159	8	10	12	22	8	9	17	14	16	13	16	14	..
	{ Males.....	85	1	6	10	9	2	5	9	6	10	11	7	9	..
	{ Females...	74	7	4	2	13	6	4	8	8	6	2	9	5	..
56.....	{ Total .....	179	19	7	9	15	14	12	11	20	22	13	14	22	1
	{ Males.....	117	14	4	6	11	10	9	6	11	16	11	9	9	1
	{ Females...	62	5	3	3	4	4	3	5	9	6	2	5	13	..
57.....	{ Total .....	156	12	12	22	8	12	10	14	17	12	10	10	16	1
	{ Males.....	91	4	5	14	4	6	7	8	13	8	7	5	9	1
	{ Females...	65	8	7	8	4	6	3	6	4	4	3	5	7	..
58.....	{ Total .....	199	14	12	18	21	12	17	16	17	18	19	20	15	..
	{ Males.....	105	5	6	11	9	7	8	8	9	13	12	10	7	..
	{ Females...	94	9	6	7	12	5	9	8	8	5	7	10	8	..
59.....	{ Total .....	159	9	16	12	16	14	9	11	9	13	15	15	20	..
	{ Males.....	96	4	14	4	11	8	6	6	5	7	7	10	14	..
	{ Females...	63	5	2	8	5	6	3	5	4	6	8	5	6	..
60.....	{ Total .....	203	12	16	16	11	14	16	19	17	18	23	23	18	..
	{ Males.....	126	8	11	7	10	7	7	13	8	11	13	18	13	..
	{ Females...	77	4	5	9	1	7	9	6	9	7	10	5	5	..
61.....	{ Total .....	135	20	8	9	10	14	6	14	7	12	19	7	9	..
	{ Males.....	77	11	4	6	4	8	5	6	4	8	12	6	3	..
	{ Females...	58	9	4	3	6	6	1	8	3	4	7	1	6	..
62.....	{ Total .....	209	10	16	15	24	18	20	15	10	37	15	15	12	2
	{ Males.....	128	5	5	11	14	11	12	10	6	25	10	13	5	1
	{ Females...	81	5	11	4	10	7	8	5	4	12	5	2	7	1
63.....	{ Total .....	255	16	23	23	20	26	20	20	20	23	25	18	21	..
	{ Males.....	153	8	17	12	10	14	14	9	16	14	15	14	10	..
	{ Females...	102	8	6	11	10	12	6	11	4	9	10	4	11	..
64.....	{ Total .....	242	20	14	23	20	19	13	17	23	21	21	20	31	..
	{ Males.....	154	10	4	14	13	14	5	10	16	17	15	12	24	..
	{ Females...	88	10	10	9	7	5	8	7	7	4	6	8	7	..
65.....	{ Total .....	233	23	18	17	25	25	22	15	17	18	16	16	21	..
	{ Males.....	127	16	9	7	14	11	13	10	10	9	8	8	12	..
	{ Females...	106	7	9	10	11	14	9	5	7	9	8	8	9	..
66.....	{ Total .....	233	20	19	17	23	4	10	17	20	17	27	25	34	..
	{ Males.....	135	11	13	14	15	1	8	7	6	10	17	12	21	..
	{ Females...	98	9	6	3	8	3	2	10	14	7	10	13	13	..
67.....	{ Total .....	218	21	13	16	25	20	17	17	17	19	17	21	15	..
	{ Males.....	126	11	9	11	9	12	8	14	16	11	9	10	6	..
	{ Females...	92	10	4	5	16	8	9	3	1	8	8	11	9	..
68.....	{ Total .....	256	19	11	21	24	25	16	16	18	28	28	25	25	..
	{ Males.....	137	9	7	9	13	14	10	10	9	16	14	12	14	..
	{ Females...	119	10	4	12	11	11	6	6	9	12	14	13	11	..
69.....	{ Total .....	199	13	22	15	15	17	18	16	17	19	16	11	20	..
	{ Males.....	120	8	14	13	6	10	10	12	7	14	8	7	11	..
	{ Females...	79	5	8	2	9	7	8	4	10	5	8	4	9	..
70.....	{ Total .....	260	18	16	27	23	21	21	22	23	24	27	18	19	1
	{ Males.....	144	10	12	15	11	11	13	9	16	9	13	11	13	1
	{ Females...	116	8	4	12	12	10	8	13	7	15	14	7	6	..
71.....	{ Total .....	199	12	15	17	17	16	10	13	18	18	19	26	18	..
	{ Males.....	112	8	10	10	8	10	5	5	10	11	13	12	10	..
	{ Females...	87	4	5	7	9	6	5	8	8	7	6	14	8	..
72.....	{ Total .....	273	20	20	21	21	23	21	28	22	23	24	18	31	1
	{ Males.....	146	7	14	9	14	13	9	17	13	17	11	8	13	1
	{ Females...	127	13	6	12	7	10	12	11	9	6	13	10	18	..



## DEATHS BY SEPARATE AGES, SEX AND MONTHS

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Table 57.—CONTINUED.—Deaths by ages, sex and months.

Ages in years.	Sex.	Year. 1896.	Months, 1896.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
73	Total	232	14	17	19	20	15	16	20	20	28	23	14	26	..
	Males	148	9	9	7	13	9	13	14	16	18	13	9	18	..
	Females	84	5	8	12	7	6	3	6	4	10	10	5	8	..
74	Total	274	16	19	22	27	17	18	26	16	29	26	34	23	1
	Males	158	9	13	12	16	12	10	16	11	15	14	17	12	1
	Females	116	7	6	10	11	5	8	10	5	14	12	17	11	..
75	Total	245	11	26	25	21	16	20	17	18	17	21	23	29	1
	Males	159	9	13	14	14	9	13	14	14	10	16	13	19	1
	Females	86	2	13	11	7	7	7	3	4	7	5	10	10	..
76	Total	276	16	19	26	27	18	24	21	30	24	16	29	26	..
	Males	166	11	12	17	16	7	15	10	20	13	11	17	17	..
	Females	110	5	7	9	11	11	9	11	10	11	5	12	9	..
77	Total	201	13	20	16	16	13	17	15	20	16	19	13	23	..
	Males	113	7	9	9	7	5	8	8	15	13	9	5	18	..
	Females	88	6	11	7	9	8	9	7	5	3	10	8	5	..
78	Total	211	19	16	23	20	14	18	14	17	10	22	23	15	..
	Males	118	10	7	9	9	11	14	4	12	7	15	12	8	..
	Females	93	9	9	14	11	3	4	10	5	3	7	11	7	..
79	Total	169	17	17	19	17	8	7	12	10	9	15	20	17	1
	Males	97	10	7	9	10	6	5	8	8	6	7	11	10	..
	Females	72	7	10	10	7	2	2	4	2	3	8	9	7	1
80	Total	193	17	17	11	13	8	18	9	13	18	20	31	18	..
	Males	104	11	8	6	5	2	12	3	7	10	12	18	10	..
	Females	89	6	9	5	8	6	6	6	6	8	8	13	8	..
81	Total	144	8	9	8	14	14	15	8	17	13	8	13	17	..
	Males	90	6	7	5	9	7	7	6	11	9	4	12	7	..
	Females	54	2	2	3	5	7	8	2	6	4	4	1	10	..
82	Total	158	11	12	15	19	11	19	10	11	13	15	14	8	..
	Males	98	8	6	10	9	9	9	9	10	8	11	6	3	..
	Females	60	3	6	5	10	2	10	1	1	5	4	8	5	..
83	Total	126	10	13	9	15	11	14	2	9	10	10	13	10	..
	Males	71	6	8	8	8	8	6	1	4	4	5	9	4	..
	Females	55	4	5	1	7	3	8	1	5	6	5	4	6	..
84	Total	160	11	17	14	11	10	12	12	7	17	18	12	18	1
	Males	81	7	13	6	3	7	7	3	6	6	12	5	6	..
	Females	79	4	4	8	8	3	5	9	1	11	6	7	12	1
85	Total	111	7	7	14	12	13	11	8	10	5	7	6	11	..
	Males	64	3	3	11	5	8	6	5	6	4	5	1	7	..
	Females	47	4	4	3	7	5	5	3	4	1	2	5	4	..
86	Total	93	9	3	12	8	6	8	7	4	8	10	10	8	..
	Males	56	6	1	4	4	3	6	4	2	8	8	7	3	..
	Females	37	3	2	8	4	3	2	3	2	..	2	3	5	..
87	Total	94	9	4	14	5	4	6	4	6	10	15	12	5	..
	Males	54	4	2	8	2	4	5	2	4	2	10	8	3	..
	Females	40	5	2	6	3	..	1	2	2	8	5	4	2	..
88	Total	61	2	4	12	4	3	3	2	5	4	8	5	9	..
	Males	44	2	4	8	2	3	3	2	3	2	7	3	5	..
	Females	17	..	..	4	2	..	..	..	2	2	1	2	4	..
89	Total	50	1	2	10	2	3	3	3	1	5	9	7	4	..
	Males	31	..	1	8	..	2	2	1	..	3	5	6	3	..
	Females	19	1	1	2	2	1	1	2	1	2	4	1	1	..
90	Total	39	3	2	5	3	4	2	2	5	..	3	5	4	1
	Males	19	2	1	..	3	3	2	..	5	..	3	3	3	..
	Females	20	1	1	5	3	1	..	2	..	..	3	2	1	1



Table 57.—CONCLUDED.—Deaths by ages, sex and months.

Ages in years.	Sex.	Year, 1896.	Months, 1896.												Unknown.
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	
91.....	Total.....	37	2	4	6	3	1	3	2	1	1	4	3	7	
	Males.....	22	2	2	1	3	1	3	1	1	1	1	1	6	
	Females.....	15		2	5				1		1	3	2	1	
92.....	Total.....	33	6	1	4	1	1	3	1	4	3	1	7	1	
	Males.....	16	3		2	1		2		2	1		4	1	
	Females.....	17	3	1			1	1	1	2	2	1	3		
93.....	Total.....	19	3	1	2	2	1	2		2	1		2	3	
	Males.....	10	3		1	2	1	2			1			2	
	Females.....	9		1	1			2		2			2	1	
94.....	Total.....	11		2	1	1	1		2	1	2	1			
	Males.....	4		1		1	1			1	2	1			
	Females.....	7		1	1				2		2	1			
95.....	Total.....	11	2	3				1		2			3		
	Males.....	8	1	1				1					3		
	Females.....	3	1	2						2					
96.....	Total.....	10	1				2	1	1		4			1	
	Males.....	9	1				2	1	1		3			1	
	Females.....	1									1				
97.....	Total.....	7		1		1	1				1		3		
	Males.....	3		1		1	1								
	Females.....	4									1		3		
98.....	Total.....	9						1	1	1	1	2	3		
	Males.....	2						1		1					
	Females.....	7							1		1	2	3		
99.....	Total.....	2					1			1					
	Males.....	1								1					
	Females.....	1					1								
100+.....	Total.....	9	1	1		1			1		1	1	2	1	
	Males.....	5	1	1		1					1		1		
	Females.....	4							1			1	1	1	
Unknown.....	Total.....	280	20	22	23	22	21	16	24	13	22	15	18	23	21
	Males.....	148	13	11	13	12	12	8	14	7	14	7	7	17	13
	Females.....	107	7	11	9	10	9	7	10	5	8	8	11	6	6
	Unknown.....	5			1			1		1					2

## COLOR OF DECEDENTS, BY COUNTIES, 1896.

Table 58 presents a detailed statement, by sex and by counties, of the deaths that occurred in 1896 of each color and race. Of the total number of decedents, 21,983, not less than 21,696, or 98.69 per cent, were white; 129, or .59 per cent, black; 42, or .19 per cent, mulatto; and 113, or .51 per cent, Indian. There were only 3 deaths, or .01 per cent of the total number in which the color was unspecified. As with births and marriages, the number and ratio of colored deaths is so small, and fluctuates so widely in different years from accidental causes, that minute comparison of the death rates of the different colors and races for any single year is not advisable.

## DEATHS BY COUNTIES, SEX AND COLOR

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**Table 58.**—*Exhibiting, by sex, for the State and counties, the color of decedents, as returned for the year 1896. (Stillbirths included.)*

State and counties.	All colors, 1896.				White.				Black.			Mulatto.			Indian.			Unkn'n.	
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.
State .....	21,983	11,807	10,119	57	21,696	11,648	9,901	57	129	77	52	42	23	20	113	57	56	3	3
Alcona.....	33	16	17	—	31	15	16	—	—	—	—	—	—	—	2	1	1	—	—
Alger.....	28	20	8	—	28	20	8	—	—	—	—	—	—	—	3	1	2	—	—
Allegan.....	378	196	180	2	374	194	178	2	1	1	—	—	—	—	3	1	2	—	—
Alpena.....	156	87	69	—	156	87	69	—	—	—	—	—	—	—	3	—	3	—	—
Antrim.....	91	39	52	—	88	39	49	—	—	—	—	—	—	—	—	—	—	—	—
Arenac.....	50	27	23	—	48	26	22	—	—	—	—	—	—	—	2	1	1	—	—
Baraga.....	40	20	20	—	25	12	13	—	—	—	—	—	—	—	15	8	7	—	—
Barry.....	183	103	80	—	182	102	80	—	1	1	—	—	—	—	—	—	—	—	—
Bay.....	535	298	236	1	527	294	232	1	2	2	—	1	—	1	5	2	3	—	—
Benzie.....	78	33	45	—	78	33	45	—	—	—	—	—	—	—	—	—	—	—	—
Berrien.....	387	202	179	6	385	200	179	6	1	1	—	1	1	—	—	—	—	—	—
Branch.....	248	117	131	—	246	116	130	—	2	1	1	—	—	—	—	—	—	—	—
Calhoun.....	411	236	170	5	405	234	169	5	3	2	1	—	—	—	3	—	3	—	—
Cass.....	185	92	93	—	165	83	82	—	5	2	3	12	6	6	3	1	2	—	—
Charlevoix.....	72	41	31	—	71	40	31	—	—	—	—	—	—	—	1	1	—	—	—
Cheboygan.....	118	65	53	—	116	64	52	—	—	—	—	—	—	—	2	1	1	—	—
Chippewa.....	200	110	90	—	189	103	86	—	1	1	—	—	—	—	10	6	4	—	—
Clare.....	45	21	24	—	45	21	24	—	—	—	—	—	—	—	—	—	—	—	—
Clinton.....	232	123	107	2	232	123	107	2	—	—	—	—	—	—	—	—	—	—	—
Crawford.....	22	9	13	—	21	8	13	—	—	—	—	—	—	—	1	1	—	—	—
Delta.....	187	110	77	—	187	110	77	—	—	—	—	—	—	—	—	—	—	—	—
Dickinson.....	197	107	90	—	197	107	90	—	—	—	—	—	—	—	—	—	—	—	—
Eaton.....	246	112	134	—	246	112	134	—	—	—	—	—	—	—	—	—	—	—	—
Emmet.....	116	70	46	—	108	68	40	—	1	—	1	—	—	—	7	2	5	—	—
Genesee.....	489	251	238	—	485	248	237	—	4	3	1	—	—	—	—	—	—	—	—
Gladwin.....	21	11	10	—	21	11	10	—	—	—	—	—	—	—	—	—	—	—	—
Gogebio.....	214	140	74	—	214	140	74	—	—	—	—	—	—	—	—	—	—	—	—
G'd Traverse.....	139	71	68	—	139	71	68	—	—	—	—	—	—	—	—	—	—	—	—
Gratiot.....	185	85	100	—	183	84	99	—	—	—	—	2	1	1	—	—	—	—	—
Hillsdale.....	285	160	124	1	285	160	124	1	—	—	—	—	—	—	—	—	—	—	—
Houghton.....	476	269	207	—	474	268	206	—	2	1	1	—	—	—	—	—	—	—	—
Huron.....	259	149	110	—	259	149	110	—	—	—	—	—	—	—	—	—	—	—	—
Ingham.....	380	196	181	3	375	194	178	3	5	2	3	—	—	—	—	—	—	—	—
Ionia.....	307	146	161	—	307	146	161	—	—	—	—	—	—	—	—	—	—	—	—
Iosco.....	98	60	38	—	96	59	37	—	—	—	—	—	—	—	2	1	1	—	—
Iron.....	64	39	25	—	64	39	25	—	—	—	—	—	—	—	—	—	—	—	—
Isabella.....	156	81	75	—	147	78	69	—	1	—	1	—	—	—	8	3	5	—	—
Jackson.....	496	259	237	—	490	255	235	—	5	3	2	1	1	—	—	—	—	—	—
Kalamazoo.....	414	222	192	—	412	220	192	—	2	2	—	—	—	—	—	—	—	—	—
Kalkaska.....	34	17	16	1	33	17	15	1	1	—	1	—	—	—	—	—	—	—	—
Kent.....	1,181	638	538	5	1,177	636	536	5	2	1	1	2	1	1	—	—	—	—	—
Keweenaw.....	27	16	11	—	27	16	11	—	—	—	—	—	—	—	—	—	—	—	—
Lake.....	35	17	18	—	35	17	18	—	—	—	—	—	—	—	—	—	—	—	—
Lapeer.....	205	104	101	—	205	104	101	—	—	—	—	—	—	—	—	—	—	—	—
Leelanau.....	90	48	42	—	76	41	35	—	—	—	—	—	—	—	14	7	7	—	—
Lenawee.....	422	231	190	1	417	229	187	1	5	2	3	—	—	—	—	—	—	—	—
Livingston.....	132	70	62	—	132	70	62	—	—	—	—	—	—	—	—	—	—	—	—
Luce.....	33	17	16	—	33	17	16	—	—	—	—	—	—	—	—	—	—	—	—
Mackinac.....	69	41	25	3	65	37	25	3	—	—	—	—	—	—	4	4	—	—	—
Macomb.....	317	166	151	—	317	166	151	—	—	—	—	—	—	—	—	—	—	—	—
Manistee.....	312	161	151	—	312	161	151	—	—	—	—	—	—	—	—	—	—	—	—
Marquette.....	553	307	244	2	551	306	243	2	—	—	—	—	—	—	2	1	1	—	—
Mason.....	158	94	63	1	155	91	63	1	—	—	—	—	—	—	3	3	—	—	—
Mecosta.....	154	89	64	1	150	85	64	1	2	2	—	2	2	—	—	—	—	—	—
Menominee.....	343	195	145	3	339	191	145	3	—	—	—	—	—	—	1	1	—	3	3

**Table 58.**—CONCLUDED.—*Deaths by counties, sex and color.*

Counties.	All colors, 1896.				White.				Black.			Mulatto.			Indian.			Unkn'n.	
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.
Midland.....	108	65	43	---	108	65	43	---	---	---	---	---	---	---	---	---	---	---	---
Missaukee.....	46	25	21	---	42	23	19	---	---	---	---	---	---	---	4	2	2	---	---
Monroe.....	333	185	167	1	329	164	164	1	3	1	2	1	---	1	---	---	---	---	---
Montcalm.....	292	130	161	1	291	129	161	1	1	1	---	---	---	---	---	---	---	---	---
Montmorency.....	31	18	13	---	31	18	13	---	---	---	---	---	---	---	---	---	---	---	---
Muskegon.....	361	184	171	6	361	184	171	6	---	---	---	---	---	---	---	---	---	---	---
Newaygo.....	111	59	52	---	111	59	52	---	---	---	---	---	---	---	---	---	---	---	---
Oakland.....	370	195	175	---	361	190	171	---	9	5	4	---	---	---	---	---	---	---	---
Oceana.....	135	78	57	---	132	76	56	---	1	1	---	---	---	---	2	1	1	---	---
Ogemaw.....	18	13	5	---	18	13	5	---	---	---	---	---	---	---	---	---	---	---	---
Ontonagon.....	56	34	22	---	53	33	20	---	---	---	---	---	---	---	3	1	2	---	---
Osceola.....	118	66	52	---	118	66	52	---	---	---	---	---	---	---	---	---	---	---	---
Oscoda.....	17	11	6	---	17	11	6	---	---	---	---	---	---	---	---	---	---	---	---
Osego.....	39	20	19	---	39	20	19	---	---	---	---	---	---	---	---	---	---	---	---
Ottawa.....	321	185	136	---	320	184	136	---	1	1	---	---	---	---	---	---	---	---	---
Presque Isle.....	36	20	16	---	35	20	16	---	---	---	---	---	---	---	---	---	---	---	---
Roscommon.....	8	5	3	---	8	5	3	---	---	---	---	---	---	---	---	---	---	---	---
Saginaw.....	957	496	457	4	952	494	454	4	---	---	---	---	---	---	5	2	3	---	---
Sanilac.....	259	152	107	---	259	152	107	---	---	---	---	---	---	---	---	---	---	---	---
Schoolcraft.....	50	29	21	---	50	29	21	---	---	---	---	---	---	---	---	---	---	---	---
Shiawassee.....	224	114	108	2	224	114	108	2	---	---	---	---	---	---	---	---	---	---	---
St. Clair.....	441	233	207	1	440	232	207	1	1	1	---	---	---	---	---	---	---	---	---
St. Joseph.....	250	138	111	1	249	138	110	1	1	---	1	---	---	---	---	---	---	---	---
Tuscola.....	257	112	145	---	254	110	144	---	---	---	---	1	1	---	2	1	1	---	---
Van Buren.....	307	167	139	1	303	166	136	1	3	1	2	1	---	1	---	---	---	---	---
Washtenaw.....	421	236	184	1	399	225	173	1	7	2	5	15	9	6	---	---	---	---	---
Wayne.....	4,014	2,191	1,822	1	3,949	2,149	1,799	1	56	37	19	3	---	3	6	5	1	---	---
Wexford.....	117	62	54	1	117	62	54	1	---	---	---	---	---	---	---	---	---	---	---

## NATIVITY AND NATIONALITY OF DECEDENTS, BY COUNTIES, 1896.

In Table 59 the general nativity of decedents of each sex, classed as native born and foreign born, may be seen for the year 1896, and in Table 60 the nationalities of the foreign born decedents are separately specified. The data in these tables may be compared with the corresponding population of each general nativity and nationality as given by the State census of 1894. The value of the data relative to nativity and nationality of decedents would be much enhanced if the law provided for a statement of the birthplaces of the parents of each person whose death is reported. As it is, we cannot distinguish the differences in mortality, if any, characteristic of the children of foreign parents of various nationalities, and contrast them with the death rates of the children of natives. The new law, in force since August 29, 1897, remedies this omission, and the statistics of nativity of decedents compiled thereunder will be more valuable than formerly.

**Table 59.**—*Exhibiting, by sex, for the State and counties, the nativity of decedents returned for the year 1896. (Stillbirths included.)*

State and counties.	All nativities, 1896.				Native born.				Foreign born.				Unknown.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
State.....	21,983	11,807	10,119	57	16,074	8,430	7,590	54	5,111	2,869	2,241	1	798	508	288	2
Alcona.....	33	16	17	---	25	10	15	---	8	6	2	---	---	---	---	---
Alger.....	28	20	8	---	19	11	8	---	9	8	---	---	7	7	---	---
Allegan.....	378	196	180	2	295	151	142	2	67	35	32	---	16	10	6	---
Alpena.....	156	87	69	---	96	55	41	---	58	30	28	---	2	2	---	---
Antrim.....	91	39	52	---	68	27	41	---	20	10	10	---	3	2	1	---
Arenac.....	50	27	23	---	30	17	13	---	19	9	10	---	1	1	---	---
Baraga.....	40	20	20	---	31	16	15	---	9	4	5	---	---	---	---	---
Barry.....	183	103	80	---	152	88	64	---	28	14	14	---	3	1	2	---
Bay.....	535	298	236	1	380	212	167	1	146	83	63	---	9	3	6	---
Benzie.....	78	33	45	---	65	25	40	---	13	8	5	---	---	---	---	---
Berrien.....	387	202	179	6	278	137	135	6	71	41	30	---	38	24	14	---
Branch.....	148	117	131	---	225	106	119	---	15	7	8	---	8	4	4	---
Calhoun.....	411	236	170	5	340	198	138	4	58	29	29	---	13	9	3	1
Cass.....	185	92	93	---	162	79	83	---	18	9	9	---	5	4	1	---
Charlevoix.....	72	41	31	---	50	23	27	---	22	18	4	---	---	---	---	---
Cheboygan.....	118	65	53	---	79	40	39	---	38	24	14	---	1	1	---	---
Chippewa.....	200	110	90	---	132	70	62	---	59	34	25	---	9	6	3	---
Clare.....	45	21	24	---	39	19	20	---	6	2	4	---	---	---	---	---
Clinton.....	232	123	107	2	186	99	85	2	41	22	19	---	5	2	3	---
Crawford.....	22	9	13	---	17	7	10	---	5	2	3	---	---	---	---	---
Delta.....	187	110	77	---	136	76	60	---	51	34	17	---	---	---	---	---
Dickinson.....	197	107	90	---	145	80	65	---	46	24	22	---	6	3	3	---
Eaton.....	246	112	134	---	219	97	122	---	22	13	9	---	5	2	3	---
Emmet.....	116	70	46	---	86	49	37	---	13	11	2	---	17	10	7	---
Genesee.....	489	251	238	---	377	187	190	---	83	51	32	---	29	13	16	---
Gladwin.....	21	11	10	---	18	8	10	---	3	3	---	---	---	---	---	---
Gogebic.....	214	140	74	---	142	85	57	---	67	52	15	---	5	3	2	---
G'd Traverse.....	139	71	68	---	97	52	45	---	36	14	22	---	6	5	1	---
Gratiot.....	185	85	100	---	170	77	93	---	14	7	7	---	1	1	---	---
Hillsdale.....	285	160	124	1	247	133	113	1	26	21	5	---	12	6	6	---
Houghton.....	476	269	207	---	343	203	140	---	131	65	66	---	2	1	1	---
Huron.....	259	149	110	---	161	95	66	---	97	53	44	---	1	1	---	---
Ingham.....	380	196	181	3	316	161	152	3	43	23	20	---	21	12	9	---
Ionia.....	307	146	161	---	245	113	132	---	42	25	17	---	20	8	12	---
Iosco.....	98	60	38	---	64	41	23	---	33	19	14	---	1	---	1	---
Iron.....	64	39	25	---	38	17	21	---	21	17	4	---	5	5	---	---
Isabella.....	156	81	75	---	132	69	63	---	21	10	11	---	3	2	1	---
Jackson.....	496	259	237	---	381	194	187	---	67	36	31	---	48	29	19	---
Kalamazoo.....	414	222	192	---	311	159	152	---	71	42	29	---	32	21	11	---
Kalkaska.....	34	17	16	1	22	11	10	1	5	3	2	---	7	3	4	---
Kent.....	1,181	638	538	5	847	436	406	5	255	139	116	---	79	63	16	---
Keweenaw.....	27	16	11	---	19	12	7	---	8	4	4	---	---	---	---	---
Lake.....	35	17	18	---	30	14	16	---	5	3	2	---	---	---	---	---
Lapeer.....	205	104	101	---	141	70	71	---	61	32	29	---	3	2	1	---
Leelanau.....	90	48	42	---	66	31	35	---	24	17	7	---	---	---	---	---
Lenawee.....	422	231	190	1	342	184	157	1	69	38	31	---	11	9	2	---
Livingston.....	132	70	62	---	101	48	53	---	29	20	9	---	2	2	---	---
Luce.....	33	17	16	---	19	9	10	---	13	7	6	---	1	1	---	---
Macdonac.....	69	41	25	3	53	33	17	3	14	8	6	---	2	---	2	---
Macomb.....	317	166	151	---	231	119	112	---	84	45	39	---	2	---	---	---
Manistee.....	312	161	151	---	236	121	115	---	76	40	36	---	---	---	---	---
Marquette.....	553	307	244	2	374	199	173	2	165	96	69	---	14	12	2	---
Mason.....	158	94	63	1	117	66	50	1	39	27	12	---	2	1	1	---
Mecosta.....	154	89	64	1	120	70	49	1	28	14	14	---	6	5	1	---
Menominee.....	343	195	145	3	240	132	105	3	90	54	36	---	13	9	4	---

Table 59.—CONCLUDED.—Deaths by counties, sex and nativity.

Counties.	All nativities, 1896.				Native born.				Foreign born.				Unknown.			
	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.
Midland.....	108	65	43	---	87	50	37	---	19	13	6	---	2	2	---	---
Missaukee.....	46	25	21	---	34	18	16	---	11	6	5	---	1	1	---	---
Monroe.....	333	165	167	1	250	115	134	1	78	45	33	---	5	5	---	---
Montcalm.....	292	130	161	1	232	108	123	1	46	17	29	---	14	5	9	---
Montmorency.....	31	18	13	---	24	14	10	---	3	1	2	---	4	3	1	---
Muskegon.....	361	184	171	6	260	135	119	6	91	45	46	---	10	4	6	---
Newaygo.....	111	59	52	---	88	45	43	---	23	14	9	---	---	---	---	---
Oakland.....	370	195	175	---	284	141	143	---	73	42	31	---	13	12	1	---
Oceana.....	135	78	57	---	107	60	47	---	20	12	8	---	8	6	2	---
Ogemaw.....	18	13	5	---	11	7	4	---	6	5	1	---	1	1	---	---
Ontonagon.....	56	34	22	---	37	20	17	---	16	12	4	---	3	2	1	---
Osceola.....	118	66	52	---	84	52	32	---	32	13	19	---	2	1	1	---
Oscoda.....	17	11	6	---	12	7	5	---	4	3	1	---	1	1	---	---
Otsego.....	39	20	19	---	28	16	12	---	11	4	7	---	---	---	---	---
Ottawa.....	321	185	136	---	205	123	82	---	114	61	53	---	2	1	1	---
Presque Isle.....	36	20	16	---	25	15	10	---	11	5	6	---	---	---	---	---
Roscommon.....	8	5	3	---	6	4	2	---	1	1	---	---	1	---	1	---
Saginaw.....	957	496	457	4	619	305	310	4	317	183	134	---	21	8	13	---
Sanilac.....	259	152	107	---	145	83	62	---	113	69	44	---	1	---	1	---
Schoolcraft.....	50	29	21	---	36	19	17	---	13	9	4	---	1	1	---	---
Shiawassee.....	224	114	108	2	176	89	85	2	43	23	20	---	5	2	3	---
St. Clair.....	441	233	207	1	265	129	135	1	167	97	70	---	9	7	2	---
St. Joseph.....	250	138	111	1	196	103	92	1	40	24	16	---	14	11	3	---
Tuscola.....	257	112	145	---	182	83	99	---	68	34	44	---	7	5	2	---
Van Buren.....	307	167	139	1	267	139	127	1	31	22	9	---	9	6	3	---
Washtenaw.....	421	236	184	1	269	153	116	---	89	50	39	---	63	33	29	1
Wayne.....	4,014	2,191	1,822	1	2,798	1,505	1,293	---	1,096	603	492	1	120	83	37	---
Wexford.....	117	62	54	1	92	51	40	1	20	10	10	---	5	1	4	---

**Table 60.**—*Exhibiting, for the State and counties, the nationalities of foreign born decedents in Michigan during the year 1896.*

State and counties.	Sex.	Total foreign born decedents, 1896.	Can-ada.	Great Brit-ain.	Ire-land.	Ger-many (Aus-tria).	Hol-land.	Nor-way, Swe-den and Den-mark.	Russia (Fin-land).	Po-land.	All oth-ers.*
State.....	Total.....	5,111	1,286	824	666	1,357	219	292	75	84	308
	Males.....	2,869	659	491	370	774	115	179	51	39	191
	Females.....	2,241	626	333	296	583	104	113	24	45	117
	Unknown.....	1	1								
Alcona.....	Total.....	8	4	2	1			1			
	Males.....	6	2	2	1			1			
	Females.....	2	2								
Alger.....	Total.....	2	1								1
	Males.....	2	1								1
	Females.....										
Allegan.....	Total.....	67	7	11	6	15	16	1			11
	Males.....	35	5	4	4	5	8	1			8
	Females.....	32	2	7	2	10	8				3
Alpena.....	Total.....	58	28	5	8	11		5			1
	Males.....	30	10	3	6	7		4			
	Females.....	28	18	2	2	4		1			1
Antrim.....	Total.....	20	8	6		2		3			1
	Males.....	10	3	2		2		2			1
	Females.....	10	5	4				1			
Arenac.....	Total.....	19	18			1					
	Males.....	9	8			1					
	Females.....	10	10								
Baraga.....	Total.....	9	3	1	1			4			
	Males.....	4	1	1	1			1			
	Females.....	5	2					3			
Barry.....	Total.....	28	7	10	3	6	1				1
	Males.....	14	3	6	3	1	1				
	Females.....	14	4	4		5					1
Bay.....	Total.....	146	63	16	17	28		9		7	6
	Males.....	83	29	10	10	21		7		3	3
	Females.....	63	34	6	7	7		2		4	3
Benzie.....	Total.....	13	4	1	3	2		2	1		
	Males.....	8	2	1	1	1		2	1		
	Females.....	5	2		2	1					
Berrien.....	Total.....	71	5	10	8	44		2	1	1	
	Males.....	41	4	5	3	27		1	1		
	Females.....	30	1	5	5	17		1		1	
Branch.....	Total.....	15		6	5	3					1
	Males.....	7		4		2					1
	Females.....	8		2	5	1					
Calhoun.....	Total.....	58	6	20	10	18					4
	Males.....	29	3	11	5	8					2
	Females.....	29	3	9	5	10					2
Cass.....	Total.....	18	2	2	3	8		2			1
	Males.....	9			1	6		1			1
	Females.....	9	2	2	2	2		1			
Charlevoix.....	Total.....	22	7	1	9	3					2
	Males.....	18	5		8	3					2
	Females.....	4	2	1	1						
Cheboygan.....	Total.....	38	19	7	4	5		3			
	Males.....	24	12	4	3	2		3			
	Females.....	14	7	3	1	3					

\* Includes Belgium, Switzerland, Hungary, Bohemia, France and Italy in addition to the countries included under this title in last Report.

Table 60.—CONTINUED.—Nationalities of foreign born decedents in Michigan, 1896.

Counties.	Sex.	Total foreign born decedents, 1896.	Canada.	Great Britain.	Ireland.	Germany (Austria).	Holland.	Norway, Sweden and Denmark.	Russia (Finland).	Poland.	All others.
Chippewa.....	Total.....	59	37	10	7	2	-----	2	-----	-----	1
	Males.....	34	18	8	4	2	-----	2	-----	-----	-----
	Females.....	25	19	2	3	-----	-----	-----	-----	-----	1
Clare.....	Total.....	6	4	1	-----	1	-----	-----	-----	-----	-----
	Males.....	2	2	-----	-----	-----	-----	-----	-----	-----	-----
	Females.....	4	2	1	-----	1	-----	-----	-----	-----	-----
Clinton.....	Total.....	41	6	7	6	21	1	-----	-----	-----	-----
	Males.....	22	4	3	3	11	1	-----	-----	-----	-----
	Females.....	19	2	4	3	10	-----	-----	-----	-----	-----
Crawford.....	Total.....	5	4	-----	1	-----	-----	-----	-----	-----	-----
	Males.....	2	2	-----	-----	-----	-----	-----	-----	-----	-----
	Females.....	3	2	-----	1	-----	-----	-----	-----	-----	-----
Delta.....	Total.....	51	15	3	7	6	-----	16	4	-----	-----
	Males.....	34	9	2	3	4	-----	13	3	-----	-----
	Females.....	17	6	1	4	2	-----	3	1	-----	-----
Dickinson.....	Total.....	46	8	7	1	3	1	16	3	1	6
	Males.....	24	3	4	1	2	1	6	2	-----	5
	Females.....	22	5	3	-----	1	-----	10	1	1	1
Eaton.....	Total.....	22	1	5	9	7	-----	-----	-----	-----	-----
	Males.....	13	1	3	6	4	-----	-----	-----	-----	-----
	Females.....	9	-----	2	4	3	-----	-----	-----	-----	-----
Emmet.....	Total.....	13	3	4	3	2	-----	-----	1	-----	-----
	Males.....	11	2	3	3	2	-----	-----	1	-----	-----
	Females.....	2	1	1	-----	-----	-----	-----	-----	-----	-----
Genesee.....	Total.....	83	28	25	19	8	-----	-----	-----	-----	3
	Males.....	51	12	17	14	6	-----	-----	-----	-----	2
	Females.....	32	16	8	5	2	-----	-----	-----	-----	1
Gladwin.....	Total.....	3	2	-----	-----	1	-----	-----	-----	-----	-----
	Males.....	3	2	-----	-----	1	-----	-----	-----	-----	-----
	Females.....	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Gogebic.....	Total.....	67	5	16	4	13	-----	10	15	3	1
	Males.....	52	3	12	3	10	-----	8	12	3	1
	Females.....	15	2	4	1	3	-----	2	3	-----	-----
G'd Traverse.....	Total.....	36	8	6	2	9	1	8	1	-----	1
	Males.....	14	3	3	1	5	-----	2	-----	-----	-----
	Females.....	22	5	3	1	4	1	6	1	-----	1
Gratiot.....	Total.....	14	3	3	3	4	-----	-----	-----	-----	1
	Males.....	7	2	-----	2	2	-----	-----	-----	-----	1
	Females.....	7	1	3	1	2	-----	-----	-----	-----	-----
Hillsdale.....	Total.....	26	-----	16	7	3	-----	-----	-----	-----	-----
	Males.....	21	-----	12	7	2	-----	-----	-----	-----	-----
	Females.....	5	-----	4	-----	1	-----	-----	-----	-----	-----
Houghton.....	Total.....	131	22	42	14	22	-----	12	14	1	4
	Males.....	65	13	19	4	13	-----	7	7	-----	2
	Females.....	66	9	23	10	9	-----	5	7	1	2
Huron.....	Total.....	97	44	17	5	24	-----	-----	-----	6	1
	Males.....	53	20	12	3	13	-----	-----	-----	4	1
	Females.....	44	24	5	2	11	-----	-----	-----	2	-----
Ingham.....	Total.....	43	8	8	10	17	-----	-----	-----	-----	-----
	Males.....	23	3	5	5	10	-----	-----	-----	-----	-----
	Females.....	20	5	3	5	7	-----	-----	-----	-----	-----
Ionia.....	Total.....	42	11	10	7	12	-----	1	-----	-----	1
	Males.....	25	6	7	3	7	-----	1	-----	-----	1
	Females.....	17	5	3	4	5	-----	-----	-----	-----	-----

Table 60.—CONTINUED.—Nationalities of foreign born decedents in Michigan, 1896.

Counties.	Sex.	Total foreign born decedents, 1896.	Canada.	Great Britain.	Ireland.	Germany (Austria).	Holland.	Norway, Sweden and Denmark.	Russia (Finland).	Poland.	All others.
Iosco.....	Total.....	33	17	5	2	5	-----	3	1	-----	-----
	Males.....	19	8	4	1	4	-----	2	-----	-----	-----
	Females.....	14	9	1	1	1	-----	1	1	-----	-----
Iron.....	Total.....	21	5	4	-----	1	-----	7	1	2	1
	Males.....	17	3	2	-----	1	-----	7	1	2	1
	Females.....	4	2	2	-----	-----	-----	-----	-----	-----	-----
Isabella.....	Total.....	21	11	5	2	3	-----	-----	-----	-----	-----
	Males.....	10	5	3	1	1	-----	-----	-----	-----	-----
	Females.....	11	6	2	1	2	-----	-----	-----	-----	-----
Jackson.....	Total.....	67	11	20	12	21	-----	-----	-----	-----	3
	Males.....	36	5	13	5	11	-----	-----	-----	-----	2
	Females.....	31	6	7	7	10	-----	-----	-----	-----	1
Kalamazoo.....	Total.....	71	10	10	14	11	22	1	2	-----	1
	Males.....	42	8	5	6	7	13	1	1	-----	1
	Females.....	29	2	5	8	4	9	-----	1	-----	-----
Kalkaska.....	Total.....	5	3	2	-----	-----	-----	-----	-----	-----	-----
	Males.....	3	1	2	-----	-----	-----	-----	-----	-----	-----
	Females.....	2	2	-----	-----	-----	-----	-----	-----	-----	-----
Kent.....	Total.....	255	36	28	36	43	53	8	3	7	41
	Males.....	139	19	12	24	22	31	3	1	3	24
	Females.....	116	17	16	12	21	22	5	2	4	17
Keweenaw.....	Total.....	8	1	4	1	1	-----	-----	1	-----	-----
	Males.....	4	-----	2	-----	1	-----	-----	1	-----	-----
	Females.....	4	1	2	1	-----	-----	-----	-----	-----	-----
Lake.....	Total.....	5	3	-----	-----	2	-----	-----	-----	-----	-----
	Males.....	3	2	-----	-----	1	-----	-----	-----	-----	-----
	Females.....	2	1	-----	-----	1	-----	-----	-----	-----	-----
Lapeer.....	Total.....	61	32	12	6	8	-----	-----	-----	-----	3
	Males.....	32	15	7	4	3	-----	-----	-----	-----	3
	Females.....	29	17	5	2	5	-----	-----	-----	-----	-----
Leelanau.....	Total.....	24	5	2	2	9	-----	5	-----	-----	1
	Males.....	17	3	2	1	8	-----	2	-----	-----	1
	Females.....	7	2	-----	1	1	-----	3	-----	-----	-----
Lenawee.....	Total.....	69	6	14	21	25	-----	1	-----	-----	2
	Males.....	38	4	9	11	11	-----	1	-----	-----	2
	Females.....	31	2	5	10	14	-----	-----	-----	-----	-----
Livingston.....	Total.....	29	5	10	8	6	-----	-----	-----	-----	-----
	Males.....	20	3	6	7	4	-----	-----	-----	-----	-----
	Females.....	9	2	4	1	2	-----	-----	-----	-----	-----
Luce.....	Total.....	13	5	3	1	1	-----	2	1	-----	-----
	Males.....	7	1	2	1	1	-----	2	-----	-----	-----
	Females.....	6	4	1	-----	-----	-----	-----	1	-----	-----
Mackinac.....	Total.....	14	7	1	5	-----	-----	1	-----	-----	-----
	Males.....	8	3	1	3	-----	-----	1	-----	-----	-----
	Females.....	6	4	-----	2	-----	-----	-----	-----	-----	-----
Macomb.....	Total.....	84	15	9	3	56	-----	-----	-----	-----	1
	Males.....	45	9	4	-----	31	-----	-----	-----	-----	1
	Females.....	39	6	5	3	25	-----	-----	-----	-----	-----
Manistee.....	Total.....	76	12	4	4	20	-----	27	-----	9	-----
	Males.....	40	8	-----	1	11	-----	16	-----	4	-----
	Females.....	36	4	4	3	9	-----	11	-----	5	-----
Marquette.....	Total.....	165	23	39	20	16	-----	49	14	-----	4
	Males.....	96	11	23	7	11	-----	29	13	-----	2
	Females.....	69	12	16	13	5	-----	20	1	-----	2



Table 60.—CONTINUED.—Nationalities of foreign born decedents in Michigan, 1896.

Counties.	Sex.	Total foreign born decedents, 1896.	Canada.	Great Britain.	Ireland.	Germany (Austria).	Holland.	Norway, Sweden and Denmark.	Russia (Finland).	Poland.	All others.
Mason.....	Total.....	39	12	4	2	15	-----	4	-----	1	1
	Males.....	27	8	4	2	12	-----	1	-----	-----	-----
	Females.....	12	4	-----	-----	3	-----	3	-----	1	1
Mecosta.....	Total.....	28	10	3	3	7	1	4	-----	-----	-----
	Males.....	14	7	-----	2	2	1	2	-----	-----	-----
	Females.....	14	3	3	1	5	-----	2	-----	-----	-----
Menominee.....	Total.....	90	22	-----	-----	5	-----	16	1	-----	46
	Males.....	54	16	-----	-----	2	-----	10	1	-----	25
	Females.....	36	6	-----	-----	3	-----	6	-----	-----	21
Midland.....	Total.....	19	8	4	5	2	-----	-----	-----	-----	-----
	Males.....	13	6	4	3	-----	-----	-----	-----	-----	-----
	Females.....	6	2	-----	2	2	-----	-----	-----	-----	-----
Missaukee.....	Total.....	11	1	-----	1	1	8	-----	-----	-----	-----
	Males.....	6	-----	-----	-----	1	5	-----	-----	-----	-----
	Females.....	5	1	-----	1	-----	3	-----	-----	-----	-----
Monroe.....	Total.....	78	8	10	5	49	-----	-----	-----	-----	6
	Males.....	45	4	6	5	27	-----	-----	-----	-----	3
	Females.....	33	4	4	-----	22	-----	-----	-----	-----	3
Montcalm.....	Total.....	46	14	7	7	5	-----	11	-----	-----	2
	Males.....	17	3	6	1	1	-----	5	-----	-----	1
	Females.....	29	11	1	6	4	-----	6	-----	-----	1
Montmorency.....	Total.....	3	2	-----	-----	1	-----	-----	-----	-----	-----
	Males.....	1	-----	-----	-----	1	-----	-----	-----	-----	-----
	Females.....	2	2	-----	-----	-----	-----	-----	-----	-----	-----
Muskegon.....	Total.....	91	15	8	6	13	27	21	-----	-----	1
	Males.....	45	5	3	1	8	14	13	-----	-----	1
	Females.....	46	10	5	5	5	13	8	-----	-----	-----
Newaygo.....	Total.....	23	6	5	4	2	2	4	-----	-----	-----
	Males.....	14	3	3	3	1	2	2	-----	-----	-----
	Females.....	9	3	2	1	1	-----	2	-----	-----	-----
Oakland.....	Total.....	73	14	23	14	20	-----	-----	-----	-----	2
	Males.....	42	9	11	8	12	-----	-----	-----	-----	2
	Females.....	31	5	12	6	8	-----	-----	-----	-----	-----
Oceana.....	Total.....	20	3	2	3	6	-----	5	-----	-----	1
	Males.....	12	1	2	2	3	-----	3	-----	-----	1
	Females.....	8	2	-----	1	3	-----	2	-----	-----	-----
Ogemaw.....	Total.....	6	3	1	1	1	-----	-----	-----	-----	-----
	Males.....	5	3	1	-----	1	-----	-----	-----	-----	-----
	Females.....	1	-----	-----	1	-----	-----	-----	-----	-----	-----
Ontonagon.....	Total.....	16	4	-----	4	3	-----	3	1	1	-----
	Males.....	12	3	-----	4	2	-----	2	1	-----	-----
	Females.....	4	1	-----	-----	1	-----	1	-----	1	-----
Osceola.....	Total.....	32	17	3	3	7	-----	2	-----	-----	-----
	Males.....	13	6	1	1	3	-----	2	-----	-----	-----
	Females.....	19	11	2	2	4	-----	-----	-----	-----	-----
Oscoda.....	Total.....	4	3	-----	-----	1	-----	-----	-----	-----	-----
	Males.....	3	3	-----	-----	-----	-----	-----	-----	-----	-----
	Females.....	1	-----	-----	-----	1	-----	-----	-----	-----	-----
Otsego.....	Total.....	11	5	-----	2	3	-----	1	-----	-----	-----
	Males.....	4	1	-----	-----	2	-----	-----	-----	-----	-----
	Females.....	7	4	-----	1	1	-----	1	-----	-----	-----
Ottawa.....	Total.....	114	5	7	9	14	77	1	-----	1	-----
	Males.....	61	1	6	8	9	35	1	-----	1	-----
	Females.....	53	4	1	1	5	42	-----	-----	-----	-----

DEATHS BY COUNTIES, SEX AND NATIONALITY 121

**Table 60.—CONCLUDED.—Nationalities of foreign born decedents in Michigan, 1896.**

Counties.	Sex.	Total foreign born decedents, 1896.	Canada.	Great Britain.	Ireland.	Germany (Austria).	Holland.	Norway, Sweden and Denmark.	Russia (Finland).	Poland.	All others.
Presque Isle	Total	11			1	7				2	1
	Males	5			1	2				1	1
	Females	6				5				1	
Roscommon	Total	1		1							
	Males	1		1							
	Females										
Saginaw	Total	317	90	35	27	142		5	2	11	5
	Males	183	44	21	20	81		5	1	7	4
	Females	134	46	14	7	61			1	4	1
Sanilac	Total	113	69	12	18	11					3
	Males	69	42	9	10	6					2
	Females	44	27	3	8	5					1
Schoolcraft	Total	13	7		2			3	1		
	Males	9	7					1	1		
	Females	4			2			2			
Shiawassee	Total	43	12	11	7	11					2
	Males	23	7	7	4	4					1
	Females	20	5	4	3	7					1
St. Clair	Total	167	65	27	30	39					6
	Males	97	33	19	15	26					4
	Females	70	32	8	15	13					2
St. Joseph	Total	40	1	6	7	16	1				9
	Males	24	1	3	4	9					7
	Females	16		3	3	7	1				2
Tuscola	Total	68	39	14	2	13					
	Males	24	13	7	1	3					
	Females	44	26	7	1	10					
Van Buren	Total	31	7	11	5	6					2
	Males	22	6	7	3	4					2
	Females	9	1	4	2	2					
Washtenaw	Total	89	8	23	16	41		1			
	Males	50	2	16	6	26					
	Females	39	6	7	10	15		1			
Wayne	Total	1,096	231	152	161	386	8	4	7	31	116
	Males	603	123	91	85	217	3	2	3	11	68
	Females	492	107	61	76	169	5	2	4	20	48
	Unknown	1	1								
Wexford	Total	20	7	5	1	1		6			
	Males	10	1	3	1	1		4			
	Females	10	6	2				2			

TOWNSHIPS REPORTING NO DEATHS AND DELINQUENT TOWNSHIPS, 1896.

There were 66 townships and wards, having an aggregate population of 18,308 persons in 1894, in which no deaths occurred in 1896, according to the statements of their supervisors. The supervisors of 11 townships, representing a total population of 7,501 persons in 1894, failed entirely to make reports of deaths, as required by law.

Considerable improvement seems to have taken place in the matter of delinquent returns as compared with the previous year. The largest township failing to make a report, owing to the neglect of this law on the part of the supervisor, is Clay township in St. Clair county. Such disregard of the law is wholly inexcusable in an old and populous county.

**Table 61.**—*List of townships in which it was reported that no deaths occurred in 1896, showing population in 1894.*

County.	Township.	Population, June 1, 1894.	County.	Township.	Population, June 1, 1894.
Alcona.....	{ Hawes.....	292	Luce.....	Columbus.....	57
	{ Millen.....	118			
	{ Mitchell.....	88	Mackinac.....	{ Portage.....	158
Alger.....	Onota.....	138		{ St. Ignace City, 1st w'd	254
Antrim.....	{ Chestonia.....	469	Marquette.....	Turin.....	143
	{ Jordan.....	450			
Baraga.....	Covington.....	88	Missaukee.....	{ Aetna.....	328
Benzie.....	Lake.....	171		{ Forest.....	280
Cheboygan.....	Ellis.....	163		{ Caldwell.....	585
Chippewa.....	Sugar Island.....	570	Montmorency.....	Wheatfield.....	130
Clare.....	{ Arthur.....	378	Muskegon.....	Blue Lake.....	148
	{ Franklin.....	178			
	{ Harrison City, 1st ward	224	Newaygo.....	{ Beaver.....	439
Crawford.....	South Branch.....	108		{ Goodwell.....	392
				{ Monroe.....	738
Emmet.....	{ Egleston.....	140		{ Troy.....	277
	{ Carp Lake.....	363			
	{ Littlefield.....	866	Ogemaw.....	{ Cumming.....	373
	{ Springvale.....	*		{ Goodar.....	172
	{ West Traverse.....	*		{ Mills.....	81
				{ Richland.....	623
Gladwin.....	{ Billings.....	122		{ Rose.....	629
	{ Buckeye.....	254	Ontonagon.....	{ Bohemia.....	172
	{ Bourett.....	*		{ Carp Lake.....	53
	{ Sherman.....	161	Osceola.....	Middle Branch.....	282
	{ City of Gladwin, 3d w'd	144	Otsego.....	Chester.....	212
	{ " " 4th " "	182	Presque Isle.....	Moltke.....	463
G'd Traverse..	Union.....	193			
Iosco.....	Au Sable City, 2d ward	800	Roscommon.....	{ Denton.....	65
				{ Gerrish.....	64
Kalkaska.....	{ Glade.....	122		{ Markey.....	39
	{ Oliver.....	69		{ Richfield.....	79
	{ Orange.....	421	Schoolcraft.....	Harrison.....	558
			St. Clair.....	Berlin.....	1,193
Lake.....	{ Cherry Valley.....	210	Wexford.....	{ Hanover.....	347
	{ Eden.....	222		{ Slagle.....	157
	{ Elk.....	824			
	{ Lake.....	89			
	{ Yates.....	205			
Total population reporting no deaths.....					18,308

\* Townships organized since census was taken.

**Table 62.**—*List of townships from which no returns of deaths were received for 1896, showing population in 1894. (List closed December 1, 1897.)*

County.	Township.	Population, June 1, 1894.	County.	Township.	Population, June 1, 1894.
Alcona.....	Alcona.....	985	Chippewa.....	{ Superior*.....	1,596
Alpena.....	Sanborn.....	346		{ Trout Lake*.....	89
Bay.....	Garfield.....	302	Gladwin.....	{ Butman.....	205
Charlevoix.....	Boyne Valley.....	735		{ Clement.....	91
			Houghton.....	{ Duncan.....	969
				{ Laird*.....	231
			St. Clair.....	Clay.....	1,952
Total population of delinquent townships.....					7,501

\* No statement from county clerk.

## SECTION II.—CAUSES OF DEATHS IN MICHIGAN DURING THE YEAR 1896.

The tables in this section of the Report are designed to exhibit the particulars in regard to the mortality in Michigan for the year 1896 with especial reference to the individual causes of death, so far as the returns afford information on this point. It is well ascertained that not all the deaths that annually occur in Michigan are enumerated by the supervisors. It has been estimated that should the number of deaths actually returned be increased by 60 per cent of itself, the result would probably not exceed the number of deaths that occur. This percentage of omissions is known to be somewhat irregularly distributed through the year, the early months most distant from the date of enumeration being the most deficient. It is evident that the individual causes of death share in this deficiency of enumeration, and, on the average, each should be increased by about the same percentage as total deaths in order to give the entire number of deaths. Certain diseases, as cholera infantum, whose incidence is mostly in the later months of the year, are more fully returned than others, like measles or scarlet fever, which occur chiefly in the spring.

The original statements of the causes of death are made by the supervisors or assessors on the authority of the families or friends of the deceased persons, and are not based, as a rule, upon the death certificates of the medical attendants. A very large percentage of deaths is returned with the cause of death entirely unspecified or stated to be "unknown," while many of the specified causes included in the tables are so indefinite as to afford no accurate information in regard to the diseases that caused death. Such are the deaths returned as due to "lung trouble," "brain difficulty," "kidney complaint," "heart failure," (no less than 389 of these in 1896, few of which were probably actual heart disease), "convulsions," "dropsy" of various organs, "fever" (unspecified as to its nature), "old age," "debility," etc., etc. The best that can be done with such statements is to classify such of them as admit of it under the organ affected, and to remember that the deaths reported from definitely specified causes would be increased somewhat if the nature of the diseases included in these indefinite returns could be ascertained.

The foregoing remarks in regard to the imperfections of causes of death apply only to the returns received under the old registration law, which form the basis of this Report. It is very gratifying that the Legislature of 1897 passed a law for the immediate registration of deaths under which physicians are required to certify to the cause of death. In case no physician was in attendance upon deceased person the registrar is required to refer the certificate to the health officer or coroner for investigation prior to issuing a burial or removal permit. The records already obtained under this new registration law show that the quality of the returns of causes of death will be greatly improved in this State, so that very much more valuable information may be expected in the reports of following years.

The most important causes of death from a practical standpoint are those that the State Board of Health is endeavoring to restrict—the "*communicable diseases dangerous to the public health*" as defined by law. Especial prominence is given to these in

the tables in this section of the Report, and in the following summary the number and percentage to total deaths from all specified diseases are stated for the leading ones:

SUMMARY OF REGISTRATION OF CAUSES OF DEATHS, 1896.\*

Deaths from all causes, . . . . .	21,983
Death rate per 100,000 population, . . . . .	949.4

In the above statement of deaths from all causes, stillbirths are included to the number of 1,254. Excluding these, as is customary in most mortality reports, we have:

Deaths from all causes, stillbirths excluded, . . . . .	20,729
Death rate per 100,000, stillbirths excluded, . . . . .	895.2

Excluding 1,289 deaths from violence, 1,254 stillbirths, 199 premature births, and 1,820 deaths of which the causes were unknown or unspecified, we have:

Deaths from SPECIFIED DISEASES, . . . . .	17,521
-------------------------------------------	--------

Even this number contains many deaths the causes of which are practically unspecified, as "old age," "debility," etc., but such deaths can be certainly ascribed to disease. The total thus obtained makes a more satisfactory basis of reference for stating the proportion of deaths from any specified cause than the grand total inclusive of deaths from violence, stillbirths, and "unknown" causes. Thus we have:

Deaths from Communicable Diseases Dangerous to the

Public Health, . . . . .	4,258 or 24.3 per cent.
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This number includes only those at present so defined by the State Board of Health. It will probably in time include all specific infectious diseases. The principal diseases now included are:

Consumption, . . . . .	2,098 or 11.9 per cent.
Diphtheria and croup, . . . . .	911 or 5.2 per cent.
Typhoid fever, . . . . .	539 or 3.1 per cent.
Scarlet fever, . . . . .	106 or .6 per cent.
Whooping cough, . . . . .	158 or .9 per cent.
Measles, . . . . .	121 or .7 per cent.
Smallpox, . . . . .	13 or .1 per cent.

Certain other diseases and groups of diseases of special importance are:

Cancer, . . . . .	780 or 4.4 per cent.
Influenza, . . . . .	248 or 1.4 per cent.
Pneumonia, . . . . .	1,386 or 7.9 per cent.
Lung diseases (including pneumonia and consumption),	3,982 or 22.7 per cent.
Bowel diseases, . . . . .	1,803 or 10.3 per cent.
Brain diseases, . . . . .	1,876 or 10.7 per cent.
Heart diseases (not including "heart failure"), . . . . .	1,102 or 6.3 per cent.

\* See summary of registration of deaths (incidence by months, sex, age, color, nativity and nationality of decedents) on page 78.

The fundamental tables relating to causes of deaths are distinguished by bold-face type in the following synopsis. A second part has been added to table 63, showing distribution of deaths by sex for each month and period of age, and the old alphabetical list which formerly contained these data has been entirely dispensed with. Following the principal tables, the usual discussion of the individual causes of death will be presented, each disease being taken up in the order in which it appears in the tabular list.

*Synopsis of tables relating to causes of deaths.*

Table.	Causes of deaths in Michigan, 1896.
<i>A.—Diseases returned as causes of death, 1896.</i>	
63.	<b>Important diseases returned as causes of deaths in Michigan during the year 1896, by sex, months of death and periods of age: A.—Persons; B.—Males and Females.</b>
64.	<b>Important diseases returned as causes of deaths in Michigan during the year 1896, by counties.</b>
65.	<b>Important diseases returned as causes of deaths in Michigan for each of the years 1869-96, inclusive.</b>
66.	Important diseases registered in Michigan during 1896, compared with 1894-95 and with five quinquennial periods, 1870-94; showing death rates per 100,000 population, and proportional deaths per 1,000 deaths from specified diseases.
67.	Death rates from certain important diseases for each of the years 1869-96.
68.	Deaths from "old age" and deaths of persons aged under 5 years and over 70 years, by geographical divisions, 1896.
69.	Certain important diseases returned as causes of deaths in 1896, by geographical divisions:—Consumption, pneumonia, influenza, diphtheria, croup, scarlet fever, typhoid fever and diarrheal diseases.
70.	Deaths and death rates per 100,000 population, by geographical divisions, from certain important diseases in Michigan, 1896.
71.	Deaths from cancer returned for the year 1896 and for the twenty-four years, 1872-95, specifying sex and organs affected. With note on deaths from "tumor," 1896.
72.	Deaths from influenza ("la grippe") by months for each of the years 1888-96.
<i>B.—Deaths from violence, 1896.</i>	
73.	<b>Deaths from violence in Michigan during the year 1896, classified.</b>
74.	<b>Deaths from violence in Michigan in 1896, by counties.</b>
75.	<b>Deaths and death rates from violence in Michigan, distinguished as accidental, suicidal and homicidal, for each of the years 1870-96, inclusive; with quinquennial averages.</b>
76.	<b>Deaths from violence in Michigan during the year 1896, showing sex, months of death and periods of age of decedents.</b>

**Table 63A.—PERSONS.—Important diseases and groups of diseases returned as causes  
ages of decedents**

Line number.	Causes of deaths, 1896.	Total deaths, 1896.	Sex.			Months of deaths, 1896.												
			Males.	Females.	Unknown.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
1	TOTAL DEATHS.....	21,983	11,807	10,119	57	1,434	1,558	1,819	1,918	1,672	1,585	1,775	2,071	2,057	1,938	1,915	2,185	56
2	SPECIFIED DISEASES.....	17,521	9,071	8,447	3	1,151	1,268	1,467	1,515	1,271	1,218	1,411	1,670	1,666	1,588	1,539	1,720	37
3	<i>Dangerous Com-</i>																	
4	<i>municable Dis-</i>																	
5	<i>eases</i> .....	4,258	1,988	2,270	..	292	296	318	377	321	294	291	342	393	440	444	445	5
6	Consumption.....	2,093	941	1,152	..	144	147	175	222	191	181	166	176	166	164	171	183	4
7	<i>Other tubercular</i>																	
8	<i>diseases</i> .....	191	89	102	..	17	14	19	16	14	17	17	15	17	14	16	15	..
9	Marasmus.....	76	40	36	..	5	9	10	9	5	8	4	5	4	6	8	3	..
10	Meningitis, Tub.	32	11	21	..	1	..	3	..	5	3	5	4	2	3	2	4	..
11	Scrofula.....	16	7	9	..	3	1	..	1	..	2	2	2	1	2	2	..	..
12	Tabes mesent'ica	46	23	23	..	7	3	2	3	2	3	4	4	7	2	2	7	..
13	<i>Other forms of</i>																	
14	<i>tuberculosis</i> }	21	8	13	..	1	1	4	3	2	1	2	..	3	1	2	1	..
15	Croup.....	211	116	95	..	26	12	10	11	8	6	11	11	14	33	37	32	..
16	Croup, Membran's	51	28	23	..	5	2	5	2	3	1	1	2	7	4	7	12	..
17	Diphtheria.....	649	305	344	..	46	38	27	38	23	18	27	33	67	97	113	122	..
18	Erysipelas.....	62	31	31	..	6	7	6	7	3	6	1	1	7	3	8	7	..
19	Fever, Puerperal.	46	..	46	..	4	6	6	6	6	1	3	2	3	1	6	2	..
20	Fever, Scarlet.....	106	50	56	..	7	12	6	12	14	7	6	7	7	6	12	10	..
21	Fever, Typhoid...	539	284	255	..	22	36	33	37	35	26	28	55	85	94	51	36	1
22	Fever, Typho-mal.	14	6	8	..	2	1	1	..	1	..	3	2	1	..	3	..	..
23	Fever, Typhus....	2	1	1	..	..	..	..	..	..	..	..	..	..	1	1	..	..
24	Glanders.....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	Measles.....	121	58	63	..	4	2	13	19	9	12	15	12	2	11	10	12	..
26	—German(Rötheln)	1	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..
27	Smallpox.....	13	11	2	..	2	8	2	1	..	..	..	..	..	..	..	..	..
28	Chickenpox.....	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..
29	Whooping cough..	158	68	90	..	7	11	15	5	10	19	13	26	17	12	9	14	..
30	Bladder diseases ..	83	78	5	..	4	8	3	10	6	8	6	10	7	9	7	5	..
31	Calculus.....	21	20	1	..	1	2	1	1	3	..	3	5	..	3	2	..	..
32	Cystitis.....	41	38	3	..	3	1	8	1	6	3	3	4	2	5	..	5	..
33	Bladder disease, etc.	21	20	1	..	3	3	1	1	2	2	2	3	4	..	..	..	..
34	Bowel diseases .....	1,803	1,008	794	1	49	74	82	95	93	142	268	414	290	135	90	78	3
35	Bowel, Inflam't'n of	344	185	159	..	24	23	19	24	23	25	44	43	40	29	27	21	2
36	Diarrhea.....	212	121	91	..	2	7	6	5	7	15	41	65	35	14	11	4	..
37	Cholera infantum..	651	351	299	1	8	16	13	22	26	42	103	217	131	39	19	14	1
38	Dysentery.....	76	38	38	..	1	1	1	1	1	8	10	30	12	7	2	3	..
39	Peritonitis.....	107	50	57	..	3	8	12	11	9	8	9	12	12	10	3	10	..
40	Bowel disease, etc.	413	263	150	..	12	19	31	32	27	44	61	47	50	36	28	26	..

## CAUSES OF DEATHS BY SEX, MONTHS AND AGES

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of deaths in Michigan during the year 1896, showing sex, months of deaths and periods of from each cause.

Ages by years, under five.					Ages by decedents by five-year periods, 1896.																			Unknown.	Line number.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +				
5,352	884	485	305	263	7,289	768	523	750	959	875	745	786	687	721	859	852	1,044	1,139	1,238	1,102	1,377	200	1		
2,987	794	423	269	213	4,686	666	435	630	835	727	628	685	572	617	749	753	928	1,043	1,138	1,009	1,267	153	2		
484	224	178	150	112	1,148	355	312	340	455	348	271	229	146	140	118	97	89	98	79	58	43	32	3		
73	34	14	6	3	130	21	63	209	323	245	208	169	118	111	97	80	76	79	65	46	30	23	4		
108	8	2	3	1	122	6	4	9	12	9	2	6	2	2	2	1	4	4	2	2	1	1	5		
70	2				72	1										1			1			1	6		
19	3	2	1	1	26			2	1		1	1								1			7		
8	1		1		10	1		1				1		1			1				1		8		
10	1		1		12	4	1	6	7	7	1	2	1				2	2		1			9		
1	1				2		3		4	2		2	1	1	2		1	2	1				10		
67	35	39	22	19	182	26	1	1								1							11		
7	8	9	5	3	32	14	3	1													1		12		
45	51	64	81	62	303	208	72	28	10	6	5	2	3	1			2	2	2		1	4	13		
23	3				26	3	1	3	4		1	4	1		1	1	1	3	4	5	4		14		
								7	11	10	9	6	3										15		
15	12	15	10	5	57	32	8	1	2	1	1	2				1		1					16		
8	3	7	10	7	35	34	54	77	82	69	42	39	19	24	18	13	5	9	6	5	4	4	17		
				1	1	1	3	1	3	2	2										1		18		
								1		1													19		
																							20		
37	33	21	7	4	102	6	3	2	2	1		1		2			1				1		21		
			1		1																		22		
1	1				2				6	4	1												23		
				1	1																		24		
100	36	7	5	6	154	4																	25		
3	2		1		6	2			1	1	3	2	1		2	5	10	8	13	13	15	1	26		
1	1				2						2	1	1			1	4	1	4	3	2		27		
2	1		1		2	2				1		1			1	2	5	6	6	5	10		28		
					2				1		1				1	2	1	1	3	5	3	1	29		
889	197	55	13	13	1,167	65	33	43	59	44	36	32	23	22	27	34	44	46	36	36	40	16	30		
99	23	12	4	4	142	29	15	16	19	16	14	7	7	5	8	10	7	18	9	12	8	2	31		
122	31	6		1	160	4	1	2	1	1			1			2	4	5	8	6	5	6	32		
500	109	25	5	3	642	5											1						33		
32	6	4	1	1	44	1			1	1	1		1	1	2	1	2	4	4	7	6		34		
3	4	1		1	9	3	8	9	18	14	9	13	5	3	2	3	2	4	3	2			35		
133	24	7	3	3	170	23	9	16	20	12	12	11	10	13	13	16	27	12	14	9	21	5	36		

\* Includes 1,254 stillbirths.



**Table 63A.**—CONCLUDED.—*Important diseases returned as causes of*

Line number.	Causes of deaths, 1896.	Total deaths, 1896.	Sex.			Months of deaths, 1896.												
			Males.	Females.	Unknown.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
37	Brain diseases.....	1,876	1,065	811	..	139	129	149	157	139	144	166	176	174	155	166	185	4
38	Apoplexy.....	337	215	122	..	25	24	29	32	30	23	24	23	30	27	36	34	..
39	Brain, Congestion of....	65	40	25	..	6	5	4	4	6	3	7	8	3	6	9	4	..
40	Brain, Inflammation of..	298	169	129	..	18	23	20	30	17	23	31	33	34	22	14	33	..
41	Epilepsy.....	59	34	25	..	4	3	9	4	6	5	3	4	3	6	5	6	1
42	Meningitis.....	192	101	91	..	20	8	20	22	13	16	19	15	16	13	11	18	1
43	Paralysis.....	745	400	345	..	52	44	55	55	51	56	67	77	68	71	70	77	2
44	Brain disease, etc.....	180	106	74	..	14	15	12	10	16	18	15	16	20	10	21	13	..
45	Cancer.....	780	325	455	..	60	49	56	64	51	64	64	67	80	90	58	73	4
46	Tumor.....	161	43	118	..	8	10	19	15	11	14	17	14	10	19	8	16	..
47	Childbirth.....	243	..	243	..	15	21	25	19	23	18	24	13	18	23	17	27	..
48	Convulsions.....	506	287	219	..	34	54	40	40	45	41	36	43	49	40	40	42	2
49	Diabetes.....	122	72	50	..	7	12	9	9	7	5	12	14	12	17	10	8	..
50	Dropsy.....	442	203	239	..	31	26	28	34	31	37	45	46	39	40	33	51	1
51	Fever (unspecified).....	87	43	44	..	5	4	4	7	8	5	8	7	14	8	7	7	3
52	Fever, Malarial.....	101	48	53	..	5	7	6	6	3	3	9	12	21	9	9	11	..
53	Heart diseases.....	1,491	832	659	..	97	108	130	127	101	100	107	126	144	145	143	158	5
54	Pericarditis.....	77	39	38	..	11	2	10	8	4	2	8	7	7	6	8	4	..
55	Heart disease, etc.....	1,025	571	454	..	61	78	77	81	70	71	71	86	100	96	107	123	4
56	"Heart failure".....	389	222	167	..	25	28	43	38	27	27	28	33	37	43	28	31	1
57	Influenza.....	248	120	128	..	13	42	50	32	16	11	6	17	7	6	24	24	..
58	Kidney diseases.....	624	457	167	..	56	40	42	45	49	39	56	57	61	60	53	65	1
59	Kidneys, Inflammat'n of	478	351	127	..	46	34	31	37	31	33	42	42	45	45	39	52	1
60	Kidney disease, etc.....	146	106	40	..	10	6	11	8	18	6	14	15	16	15	14	13	..
61	Liver disease, etc.....	203	105	98	..	16	14	12	17	18	15	9	13	29	25	14	20	1
62	Lung diseases.....	1,889	1,068	821	..	139	205	268	214	139	78	86	74	90	161	184	250	1
63	Asthma.....	74	45	29	..	3	7	6	8	5	5	5	7	6	6	4	12	..
64	Bronchitis.....	181	93	88	..	19	14	15	21	12	3	10	7	6	25	17	32	..
65	Pleurisy.....	37	18	19	..	1	5	6	2	2	4	..	1	2	4	4	6	..
66	Pneumonia.....	1,386	790	596	..	101	160	222	166	102	56	62	42	60	106	131	177	1
67	Lungs, Congestion of....	54	34	20	..	5	5	4	5	4	2	2	1	3	6	9	8	..
68	Lung disease, etc.....	157	88	69	..	10	14	15	12	14	8	7	16	13	14	19	15	..
69	Rheumatism.....	167	94	73	..	10	9	25	9	14	17	9	14	16	10	16	18	..
70	Septicemia.....	198	94	104	..	13	13	18	24	15	16	14	14	18	19	15	19	..
71	Spine disease, etc.....	121	58	63	..	10	5	6	15	13	7	13	10	9	11	9	13	..
72	Stomach diseases.....	299	151	148	..	22	15	22	31	30	23	27	26	31	21	22	28	1
73	Stomach, Inflam'at'n of.	97	40	57	..	13	5	6	8	11	8	8	8	9	6	6	9	..
74	Stomach disease, etc....	202	111	91	..	9	10	16	23	19	15	19	18	22	15	16	19	1
75	Syphilis.....	21	10	11	..	2	1	2	3	4	1	1	1	..	3	1	2	..
76	Unclassified.....	1,798	922	874	2	124	133	153	165	134	136	137	160	164	142	169	175	6

## CAUSES OF DEATHS BY SEX, MONTHS AND AGES

129

*deaths in Michigan, by sex, months of deaths and periods of age.*

Ages by years under five.					Ages of decedents by five-year periods, 1896.																		Unknown.	Line number.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +			
224	74	37	29	20	384	69	37	34	28	29	43	58	48	71	79	116	143	180	211	174	160	12	37	
6					6			4	5	3	11	9	7	15	24	34	46	47	53	40	32	1	38	
16	8		3	2	29	5	2	2	2	1	2	1	1	5	2	5	1	1	4	2			39	
107	38	17	9	6	177	31	14	10	6	7	5	7	4	8	5	5	6	7	1		1	4	40	
1	1				1	3	2	6	3	4	6	4	8	2	2	1	7	2	2			1	41	
69	23	12	12	8	124	20	9	8	4	3	3	6	3	2	2	4	1		1	1		1	42	
6	1	5	2	1	15	4	5	6	4	4	9	13	17	27	34	60	70	105	132	119	116	4	43	
19	3	3	3	2	30	7	1	1	3	5	7	18	8	12	10	7	12	17	18	12	11	1	44	
3			1		4	1	1	6	7	14	13	46	49	87	79	105	104	96	75	50	33	10	45	
6	4	1	1	3	15	2	5	2	9	8	12	9	13	16	14	12	16	10	10	5	3		46	
								16	48	54	34	53	29	3	1								5	47
376	52	22	9	5	464	8	2	4	3	3	5	1	2	1		2	1	1	1	1	3		4	48
3	1		1	2	7	4	10	4	5	8	3	7	6	5	13	6	7	11	9	10	6	1	49	
5	3	4	2	1	15	4	4	5	14	4	7	12	17	17	39	27	36	50	63	60	62	6	50	
17	2	6	6	2	33	8	2	7	5	4	4	2	5	3		1	2	1	3	4	1	2	51	
8	4	6	2	3	23	6	3	11	11	3	6	4	4	6	3	4	5	6	1	3	2		52	
72	5	3	3	6	89	20	20	24	33	42	47	47	60	86	125	109	150	203	179	138	103	16	53	
1			1	1	3	2	2	1	3		2	3		4	10	5	8	8	11	11	4		54	
36	5	1	2	4	48	14	14	17	27	35	26	35	44	55	94	78	110	141	117	86	75	9	55	
35		2		1	38	4	4	6	3	7	19	9	16	27	21	26	32	54	51	41	24	7	56	
26	7	3	3	2	41	3	3	3	5	10	6	6	3	5	11	6	10	21	30	38	45	2	57	
10	1	2	2	1	16	10	11	16	26	21	27	27	34	30	47	41	70	62	82	52	48	4	58	
5		1	2	1	9	7	10	15	19	17	23	20	27	27	34	34	54	47	63	37	31	4	59	
5	1	1			7	3	1	1	7	4	4	7	7	3	13	7	16	15	19	15	17		60	
21	1	3		1	26	3	2	3	5	7	2	9	14	12	15	28	18	27	17	11	3	1	61	
384	163	78	29	30	684	56	45	58	53	61	53	66	62	53	92	81	116	83	121	96	91	18	62	
	2				2									4	3	8	4	12	10	14	13	3	63	
67	24	13	4	9	117	4		2			4	5	5	1	4	3	3	4	5	11	5	7	1	64
1	1	1	1		4	2	5	2			2	4	1	1	1	4	2	5	2				65	
270	124	60	21	20	495	42	36	45	44	47	35	49	43	43	67	61	82	58	81	70	74	14	66	
19	3	2	1		25	3	1		2		1	2		1	3	3	1		3	5	2	1	67	
27	9	2	2	1	41	5	3	9	7	8	8	9	13	1	7	8	12	8	10	3	4	1	68	
1			1		2	5	10	9	5	6	4	6	8	5	9	12	19	17	20	16	14		69	
10		1			11	3	6	12	20	18	16	17	11	11	6	10	10	17	12	7	8	3	70	
39	12	6	3	3	63	8	6	3	5	3	1	4	1	2	1	3	4	4	2	7	4		71	
64	7	2	3		76	2	5	7	8	8	9	14	9	8	21	16	24	31	36	13	7	5	72	
8	2	1	1		12		3	3	3	3	5	5	5	5	9	4	5	12	15	4	2	2	73	
56	5	1	2		64	2	2	4	5	5	4	9	4	3	12	12	19	21	9	5	3	74		
12	1				13				1	2				2	1			2					75	
330	34	16	10	9	399	32	18	23	29	29	26	34	25	33	47	38	50	69	138	217	576	15	76	

**Table 63B.—MALES AND FEMALES.—Important diseases and groups of diseases death and periods of ages of**

Line number.	Causes of deaths, 1896.	Total deaths, 1896.	Sex.	Total deaths by sex, 1896.	Months of death, 1896.												
					January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
1	TOTAL DEATHS*.....	21,983	{ Males..... Females..... Unk.....	11,807 10,119 57	750 681 3	848 707 3	949 865 5	992 921 5	865 804 3	876 703 6	957 812 6	1,151 913 7	1,146 911 7	1,030 904 4	1,027 882 6	1,186 993 6	30 23 3
2	SPECIFIED DISEASES.....	17,521	{ Males..... Females..... Unk.....	9,071 8,447 3	585 566 3	687 601 3	745 722 3	748 769 3	621 650 3	643 575 3	715 696 3	892 777 1	903 763 1	828 760 1	808 729 2	897 823 2	21 16 3
3	<i>Dangerous Commu- nicable Diseases..</i>	4,258	{ Males..... Females.....	1,988 2,270	122 170	152 144	139 179	170 207	145 176	149 145	134 157	164 178	193 200	213 227	198 246	208 237	7 4
4	{ Consumption.....	2,093	{ Males..... Females.....	941 1,152	59 85	75 72	82 93	89 133	88 106	93 88	77 89	77 99	72 94	83 81	64 107	81 102	1 3
5	{ <i>Other tubercular diseases.....</i>	170	{ Males..... Females.....	81 89	5 11	5 3	10 10	6 7	6 6	8 8	6 9	9 6	9 5	5 8	7 7	5 9	5 9
6	Marasmus .....	76	{ Males..... Females.....	40 36	2 3	7 2	4 6	3 6	3 2	5 3	2 2	2 3	3 1	3 3	5 3	1 2	1 2
7	Meningitis, Tuber.	32	{ Males..... Females.....	11 21	1 1	1 3	1 3	1 2	1 3	1 3	2 3	3 1	1 1	1 2	1 1	1 4	1 1
8	Scrofula .....	16	{ Males..... Females.....	7 9	1 2	1 2	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 2	1 2	1 1	1 1
9	Tabes mesenterica	46	{ Males..... Females.....	23 23	2 5	2 1	2 1	2 1	2 2	1 1	3 3	3 1	4 3	1 1	1 1	1 1	4 3
10	Other forms of tuberculosis.....	21	{ Males..... Females.....	8 13	1 3	1 2	1 3	1 2	1 1	1 1	1 2	1 2	1 2	1 1	1 1	1 1	1 1
11	{ Croup .....	211	{ Males..... Females.....	116 95	10 16	7 5	5 4	7 3	5 1	5 3	8 3	5 6	5 9	22 11	20 17	17 15	17 15
12	{ Croup, membran'us	51	{ Males..... Females.....	28 23	3 2	1 1	3 2	1 1	2 1	1 1	1 1	2 3	4 4	3 4	3 4	7 5	7 5
13	Diphtheria.....	649	{ Males..... Females.....	305 344	21 25	17 21	10 17	19 19	9 14	12 6	9 18	18 15	33 34	41 56	58 55	58 64	58 64
14	Erysipelas.....	62	{ Males..... Females.....	31 31	3 3	4 3	1 5	6 1	1 2	1 5	1 5	1 1	5 2	2 1	3 5	4 3	4 3
15	Fever, Puerperal...	46	{ Males..... Females.....	46 46	4 4	6 6	6 6	6 6	6 6	1 1	3 3	2 2	3 3	1 1	6 6	2 2	2 2
16	Fever, Scarlet.....	106	{ Males..... Females.....	50 56	4 3	5 7	2 4	6 6	5 9	5 2	2 4	5 2	3 4	3 3	4 8	6 4	6 4
17	Fever, Typhoid.....	539	{ Males..... Females.....	284 255	8 14	21 15	17 16	20 17	20 15	13 13	17 11	33 22	40 36	47 47	23 28	16 20	17 1
18	{ Fever, Typho- Malarial .....	14	{ Males..... Females.....	6 8	2 1	1 1	1 1	1 1	1 1	1 1	1 2	2 1	1 1	1 1	1 2	1 1	1 1
19	Fever, Typhus.....	2	{ Males..... Females.....	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
20	Glanders.....		{ Males..... Females.....														
21	Measles .....	121	{ Males..... Females.....	58 63	2 2	5 8	12 7	3 6	4 6	8 8	8 7	4 8	4 2	6 5	8 2	6 6	6 6
22	—German (Rötheln)	1	{ Males..... Females.....	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1

\* Stillbirths are included in this total and appear in the ages 0 and 0-4 on the opposite page, as follows: males, 687; females, 520; unknown sex, 47.

*returned as causes of deaths in Michigan during the year 1896, showing sex, months of decedents from each cause.*

Ages in years under five.					Ages of decedents by five-year periods, 1896.																		Unknown.	Line number.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +			
3,000	446	295	155	138	4,004	403	264	347	393	413	349	353	359	378	466	494	638	645	708	653	792	148	}	1
2,300	438	220	150	125	3,233	365	259	412	566	402	396	433	328	343	393	358	406	494	530	449	585	107		
52					52																	5	}	2
1,657	403	233	133	105	2,531	334	193	255	317	295	262	285	276	307	385	424	555	582	657	594	733	86		
1,328	391	190	136	108	2,153	332	242	375	518	432	366	400	296	310	304	329	373	461	481	415	534	66	}	3
2					2																1			
232	99	99	72	56	558	171	85	120	184	148	113	97	78	77	68	50	52	55	51	38	25	18	}	4
252	125	79	78	56	590	184	127	220	271	200	158	132	68	62	50	47	37	43	28	20	19	14		
36	12	9	4	2	63	11	14	58	125	99	86	69	64	59	54	42	47	45	42	31	18	14	}	5
37	22	5	2	1	67	10	49	151	198	146	122	100	54	52	43	38	29	34	23	15	12	9		
52	3	1	1		37	3		5	1	3	1	1	1	1		1	2	2	1	2			}	6
55	4	1	2	1	63	3	1	4	7	4	1	3					1				1	1		
37	1				38												1		1				}	7
33	1				34	1																1		
6		1			8			1		1										1			}	8
13	2	1	1	1	18			1	1				1											
3			1		4			1					1		1			1			1		}	9
5	1				6	1											1							
6	1				7	3		3	1	3	3		1				2	2		1			}	10
4			1		5	1	1	3	6	4	1	2												
1					1				2			2			1			1	1				}	11
	1				1		3		2	2			1	1	1		1	1						
37	16	25	13	8	99	16		1															}	12
30	19	14	9	11	83	10	1									1								
4	4	4	3	3	18	7	2														1		}	13
3	4	5	2		14	7	1	1																
23	21	34	35	30	143	97	35	16	5		1	2	2	1			1	2	2		1	2	}	14
22	30	30	46	32	160	111	37	12	5	6	4		1	1										
8	2				10	2	1	3	1		1	1	1		1		1	3	2	2	2	2	}	15
15	1				16	1			3			3				1		2	2	3	2			
								7	11	10	9	6	3										}	16
10	6	8	3	3	30	15	3					1	1				1		1				}	17
5	6	7	7	2	27	17	5	1	2	1	1													
3	1	3	7	4	18	18	28	34	41	41	28	22	21	10	17	12	7	3	5	3	2	2	}	18
5	2	4	3	3	17	16	26	43	41	28	41	18	9	7	6	6	5	6	1	2	2			
								1	3		1										1		}	19
				1	1	1	3				2	1												
								1			1												}	20
16	18	11	2	3	50	1	2	2	2								1						}	21
21	15	10	5	1	52	5	1			1		1			2						1			
			1		1																		}	22

Table 63B.—CONTINUED.—Important diseases returned as causes of

Line number.	Causes of deaths, 1896.	Total deaths, 1896.	Sex.	Total deaths by sex, 1896.	Months of death, 1896.												
					January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
23	Smallpox .....	13	{ Males..... Females.....	11 1 2 1	7 2 1 1	2 1	1										
24	Chickenpox .....	1	{ Males..... Females.....	1	1		1										
25	Whooping cough .....	158	{ Males..... Females.....	68 3 90 4	4 6 7 9	2 3 5 5	5 7 12 9	4 4 17 5	9 12 5 8	4 5 4 7	7 1						
26	Bladder diseases .....	83	{ Males..... Females.....	78 3 5 1	8 3 1 1	9 1	6 1	8 2	4 9 2 1	9 7	7 9	7 7	5 5				
27	Calculus .....	21	{ Males..... Females.....	20 1 1 1	2 1 1 1	1 1	3 1		3 4 1 1		3 2						
28	Cystitis .....	41	{ Males..... Females.....	38 3 3 1	3 1 1 1	7 1	1 6 2 1	1 3	4 2	2 5	5 5						
29	Bladder diseases, etc. ....	21	{ Males..... Females.....	20 2 1 1	3 3 1 1	1 1	2 2		2 3	4 4							
30	Bowel diseases .....	1,803	{ Males..... Females..... Unk.....	1,005 28 794 21 1 1	45 45 37 37	61 34 43 34	50 60 43 60	82 142 126 179	235 156 179 124	67 49 68 40	49 46 32 1	46 2	2 1				
31	Bowels, Inflammation of .....	344	{ Males..... Females.....	185 13 159 11	11 11 12 8	11 13 12 11	11 12 11 22	14 22 19 14	24 26 14 14	15 14 13 10	14 11 10 1	11 2					
32	Diarrhea .....	212	{ Males..... Females.....	121 1 91 1	3 4 4 2	5 5 2 2	5 8 2 7	8 22 19 32	22 33 14 8	21 6 8 2	9 4	4 1					
33	Cholera infantum .....	651	{ Males..... Females..... Unk.....	351 5 299 3 1 1	9 4 7 9	12 10 10 10	13 13 19 13	23 52 19 51	52 125 92 55	76 16 55 23	16 7 11 5	7 9 5 1	9 1				
34	Dysentery .....	76	{ Males..... Females.....	38 1 38 1	1 1 1 1	1 1	1 1	5 3 3 7	3 17 7 13	3 4 9 3	4 1 1 2	1 1	1 1				
35	Peritonitis .....	107	{ Males..... Females.....	50 1 57 2	5 5 3 7	7 4	3 6 6 1	7 3 6 6	6 4 8 8	4 4 6 3	5 5	5 5					
36	Bowel diseases, etc. ....	413	{ Males..... Females.....	263 8 150 4	16 30 4 11	25 7 10 7	17 25 19 19	25 40 21 17	30 26 17 24	26 22 14 10	18 16 10 10	16 10					
37	Brain diseases .....	1,876	{ Males..... Females.....	1,065 84 811 55	75 76 47 73	68 69 61 68	78 68 84 81	82 95 81 69	95 105 105 69	95 100 66 76	100 109 76 2	109 2	76 2				
38	Apoplexy .....	337	{ Males..... Females.....	215 18 132 7	11 19 13 10	23 9 9 11	19 12 11 12	12 12 6 8	17 22 8 7	22 20 7 15	21 21 13 13	21 21					
39	Brain, Congestion of .....	65	{ Males..... Females.....	40 3 25 3	5 1 3 3	2 2 2 3	3 3 1 1	2 6 1 3	6 5 2 2	1 2 4 1	2 8	2 1					
40	Brain, Inflammation of .....	298	{ Males..... Females.....	169 10 129 8	15 9 8 11	19 11	7 10	15 8	16 15	14 19	22 12	14 8	9 5	19 14			
41	Epilepsy .....	59	{ Males..... Females.....	34 2 25 2	2 5 1 4	3 3 1 3	3 2 3 3	2 2 3 3	2 2 1 3	3 5 2 2	5 4	4 1	2 2				
42	Meningitis .....	192	{ Males..... Females.....	101 14 91 6	3 9 5 11	12 10	6 7 7 9	7 9 9 10	8 8 7 7	9 5 8 4	7 12 6 1	12 10					
43	Paralysis .....	745	{ Males..... Females.....	400 29 345 23	28 26 16 29	22 33 33 33	31 20 29 32	29 35 27 37	35 40 30 33	35 45 32 36	38 41 36 1	41 1					
44	Brain diseases, etc. ....	180	{ Males..... Females.....	106 8 74 6	11 7 4 5	7 3	9 7	9 9 11 7	4 9 7 6	13 14 6 4	6 12 9 3	10 3					

deaths in Michigan, 1896, by sex, months of deaths and periods of age.

Ages in years under five.					Ages of decedents by five-year periods, 1895.																		Unknown.	Line number.	
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +				
1	1				2				4	4	1													23	
				1	1																			24	
41 59	15 21	4 3	4 1	3 3	67 87	1 3																		25	
3	2		1		6	2			1	1	2	1	1	1		2	4	10	8	11	13	15	1	26	
1	1				2						2	1	1				1	4	1	3	3	2		27	
	1		1		2	2				1						1	1	5	6	5	5	10		28	
																								29	
2					2				1							1	2	1	1	3	5	3	1	29	
494 394 1	104 93	33 22	9 4	9 4	649 517	40 25	16 17	24 19	30 29	18 26	17 19	13 19	16 7	12 10	17 10	18 16	30 14	26 20	24 12	25 11	24 16	9 7		30	
59 40 69 53	11 12 14	8 4	4 2	2 2	84 58	15 14	5 10	8 8	10 9	5 11	5 9	2 5	3 4	1 4	6 2	6 4	3 4	10 8	6 3	10 2	5 3	1 3	5 2	1 1	31
268 231 1	59 50	13 12	3 2	3 2	346 295	4 1												1						32	
16 16	3 3	3 1			22 22	1 2					1 1			1 1	1 2				2 2	2 2	6 1	2 4			33
2 1	4 1	1 1			7 2	1 2	4 4	5 7	4 11	3 10	5 6	8 8	3 2	2 1	1 1	2 1	1 1	1 3	3 1	1 1					34
80 53	13 11	4 3	2 1	3 1	102 68	16 7	6 3	11 5	12 8	9 3	8 4	6 5	9 1	8 5	9 4	8 8	20 7	6 6	10 4	5 4	14 7	4 1		35	
127 97	40 34	18 19	15 14	6 14	206 178	33 36	17 20	17 17	10 18	14 15	24 19	36 22	23 25	39 32	45 34	72 44	91 52	111 84	127 71	103 90	70 7	5 5		36	
3 3					3 3			1 3		1 5	4 7	5 4	4 3	10 5	13 11	24 10	30 16	37 10	35 18	24 16	23 9	1 1		37	
13 3	3 5		2 1	1 1	19 10	3 2		2 2	2 2		2 1		1 1	5 5	1 1	4 1		1 1	1 3	2 1				38	
55 52	22 16	10 7	6 3	1 5	94 83	14 17	8 6	4 6	5 1	5 2	2 3	5 2	3 1	6 2	3 2	5 2	6 2	5 2	1 2			3 1		39	
1 1				1 1	2 1	1 1	4 2	3 2	2 2	4 2	2 4	2 2	4 4	1 2		1 2		1 2	1 1			1 1		40	
41 28	12 11	5 7	4 8	3 5	65 59	10 10	5 4	6 2		1 2	3 4	2 1	1 3	2 4	1 2	2 2	3 1		1 1	1 1				41	
1 5		2 1	2 1		5 10			3 5	3 2	2 1	5 3	10 4	7 10	12 15	20 14	20 31	30 29	57 49	76 50	69 50	61 55	1 3		42	
13 6		1 2	1 2		18 12	5 2			1 1	2 3	6 1	11 7	3 5	5 7	6 4	4 3	9 3	10 7	7 6	7 5	6 5	1 1		43	

Table 63B.—CONTINUED.—Important diseases returned as causes of

Line number.	Causes of deaths, 1896.	Total deaths, 1896.	Sex.	Total deaths by sex, 1896.	Months of death, 1896.												
					January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
45	{ Cancer.....	780	{ Males.... Females....	325 24 455 36	20 29	26 30	26 38	22 29	26 38	29 35	21 46	38 42	35 55	24 34	30 43	4 ..	
46	{ Tumor.....	161	{ Males.... Females....	43 1 118 7	3 7	9 10	1 14	2 9	4 10	3 14	3 11	3 7	6 13	4 4	4 12	..	
47	Childbirth.....	243	{ Males.... Females....	243 15	21	25	19	23	18	24	13	18	23	17	27	..	
48	Convulsions.....	506	{ Males.... Females....	287 15 219 19	30 24	23 17	22 18	20 25	24 17	23 13	26 17	29 20	23 17	21 19	29 13	2 ..	
49	Diabetes.....	122	{ Males.... Females....	72 6 50 1	8 4	4 5	5 4	6 1	3 2	8 4	8 6	7 5	9 8	7 3	1 5	7 ..	
50	Dropsy.....	442	{ Males.... Females....	203 12 239 19	15 11	15 13	14 20	14 17	16 21	19 26	24 22	17 22	19 21	15 18	22 29	1 ..	
51	Fever (unspecified).....	87	{ Males.... Females....	43 5 44 ..	.. 4	2 2	3 4	3 5	3 2	5 3	4 3	7 7	5 3	2 5	3 4	1 2	
52	Fever, malarial.....	101	{ Males.... Females....	48 1 53 4	2 5	5 1	2 4	3 ..	1 2	3 6	8 4	8 13	3 6	6 8	6 5	..	
53	Heart diseases.....	1,491	{ Males.... Females....	832 42 659 55	57 51	69 61	61 66	56 45	59 41	64 43	84 42	78 66	84 61	87 56	87 71	4 1	
54	Pericarditis.....	77	{ Males.... Females....	39 4 38 7	.. 2	5 5	4 4	2 2	1 1	6 6	3 3	3 3	3 3	2 2	2 2	..	
55	Heart disease, etc.....	1,025	{ Males.... Females....	571 29 454 32	44 34	40 37	38 43	39 31	41 30	41 30	60 26	53 47	54 42	63 44	66 57	3 1	
56	Heart failure.....	389	{ Males.... Females....	222 9 167 16	13 15	24 19	19 19	15 12	17 10	17 11	21 12	22 15	27 16	18 10	19 12	1 ..	
57	Influenza.....	248	{ Males.... Females....	120 9 128 4	15 27	20 30	14 18	10 6	7 4	3 3	12 5	3 4	1 5	12 12	14 10	..	
58	Kidney diseases.....	624	{ Males.... Females....	457 42 167 14	32 8	28 14	33 12	33 16	28 11	44 12	38 19	50 14	46 12	41 12	42 23	..	
59	Kidneys, Inflam'ation of	478	{ Males.... Females....	351 35 127 11	26 8	20 11	26 11	21 10	25 8	35 7	27 15	36 9	34 11	32 7	34 18	..	
60	Kidney disease, etc.....	146	{ Males.... Females....	106 7 40 3	6 3	8 3	7 1	12 6	3 3	9 5	11 4	14 2	12 3	9 5	8 5	..	
61	Liver disease, etc.....	203	{ Males.... Females....	105 8 98 8	9 5	9 3	9 8	7 11	6 9	6 3	7 6	13 16	12 13	6 8	13 7	..	
62	Lung diseases.....	1,869	{ Males.... Females....	1,068 79 821 60	109 96	156 112	120 94	67 72	48 30	43 43	46 28	56 34	94 67	108 76	141 109	1 ..	
63	Asthma.....	74	{ Males.... Females....	45 1 29 2	3 4	5 1	3 5	4 1	2 3	4 1	6 1	5 1	4 2	4 ..	4 8	..	
64	Bronchitis.....	181	{ Males.... Females....	93 7 88 12	7 7	8 7	9 12	7 5	3 ..	6 4	3 4	3 3	15 10	10 7	15 17	..	
65	Pleurisy.....	37	{ Males.... Females....	18 1 19 ..	2 3	1 5	2 ..	1 ..	3 1	.. ..	.. 1	2 ..	2 2	1 3	3 3	..	
66	Pneumonia.....	1,386	{ Males.... Females....	790 62 596 39	86 74	128 94	96 70	49 53	34 22	27 35	25 17	35 25	62 44	78 53	107 70	1 ..	
67	Lungs, Congestion of....	54	{ Males.... Females....	34 2 20 3	2 3	2 ..	4 1	1 3	1 1	2 ..	1 ..	2 1	3 3	8 1	4 4	..	
68	Lung diseases, etc.....	157	{ Males.... Females....	88 6 69 4	9 5	10 5	6 6	5 9	5 3	4 3	11 5	9 4	8 6	7 12	8 7	..	



## 135

Ages in years under five.					Ages of decedents by five-year periods, 1896.																		Unknown.	Line number.
0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +								
2	1	1	1	1	3	1	4	1	3	2	16	11	23	28	42	51	52	39	24	18	7	45		
4	2	3	1	2	7	8	5	1	1	1	2	1	2	4	3	5	4	6	5	3	3	46		
213	163	27	16	5	2	253	4	1	3	1	2	2	1	2	1	2	1	1	1	3	2	48		
3	1	1	1	2	7	3	5	3	3	4	3	4	3	6	2	1	6	2	1	6	1	49		
4	1	2	2	1	8	2	1	1	6	4	4	5	6	18	13	18	17	25	33	34	2	50		
12	5	2	3	2	19	4	4	2	6	1	2	2	1	1	3	1	2	1	1	1	1	51		
1	7	1	1	2	6	3	3	4	7	4	1	4	3	2	6	2	2	5	1	2	2	52		
41	31	2	1	2	48	6	6	13	13	20	20	27	37	42	66	61	88	124	98	97	64	53		
1	1	1	1	1	2	1	2	1	3	1	1	2	4	6	4	4	4	4	5	9	1	54		
17	19	2	1	1	22	4	3	11	9	18	8	14	26	28	52	42	64	88	66	63	47	55		
23	13	1	1	1	24	2	2	2	1	2	11	5	11	14	10	15	20	32	27	25	16	56		
12	14	4	3	3	21	1	3	2	3	7	3	3	3	3	2	3	6	17	15	27	1	57		
8	2	1	2	1	12	8	5	13	8	10	13	19	22	21	27	31	57	48	68	46	46	58		
4	1	1	1	1	6	5	5	12	5	8	11	13	19	20	24	25	45	37	52	31	30	59		
4	1	1	1	1	6	3	3	1	3	2	2	6	3	1	3	6	12	11	16	15	16	60		
14	7	1	2	1	18	2	2	1	1	4	2	1	10	5	7	15	9	16	6	5	1	61		
230	154	90	41	15	392	35	18	27	27	33	30	44	41	33	52	51	70	36	65	49	52	62		
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	63		
38	29	12	9	2	66	3	1	1	1	2	2	1	3	1	3	2	4	2	7	2	2	64		
1	1	1	1	1	2	2	1	1	2	1	1	1	1	2	1	2	1	1	2	1	1	65		
160	110	72	28	11	282	27	12	22	24	27	18	35	30	27	41	40	49	25	44	31	45	66		
11	8	1	1	1	14	3	1	1	1	1	1	1	1	1	2	2	1	3	4	2	1	67		
20	7	4	2	1	27	2	2	3	2	5	7	5	6	3	5	9	4	2	3	2	1	68		



**Table 63B.**—CONCLUDED.—*Important diseases returned as causes of*

Line number.	Causes of deaths, 1896.	Total deaths, 1896.	Sex.	Total deaths by sex, 1896.	Months of death, 1896.											
					January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
69	Rheumatism.....	167	{ Males..... Females.....	94 7 73 3	4 14 5 11	3 6	9 5	10 7	6 3	8 6	10 6	7 3	6 10	8 3	10 8	..
70	Septicemia.....	108	{ Males..... Females.....	94 5 104 8	7 10 6 8	11 13	5 10	7 9	6 8	6 8	6 11	7 11	6 8	13 9	6 6	..
71	Spine disease, etc. ....	121	{ Males..... Females.....	58 6 63 4	1 1 4 5	8 7	4 9	2 5	6 7	6 4	5 4	6 5	6 3	7 6	..	..
72	Stomach diseases.....	299	{ Males..... Females.....	151 10 148 12	5 12 10 10	17 13	13 9	14 13	14 16	10 9	22 16	9 12	11 11	14 14	1 1	..
73	Stomach, Inflam'tion of.	97	{ Males..... Females.....	40 4 57 9	1 3 4 3	2 6	6 5	6 2	2 6	3 5	4 5	2 4	3 3	4 5	..	..
74	Stomach disease, etc....	202	{ Males..... Females.....	111 6 91 3	4 9 6 7	15 8	7 12	8 7	12 7	7 11	18 4	7 8	8 8	10 9	1 1	..
75	Syphilis.....	21	{ Males..... Females.....	10 1 11 1	.. .. 1 2	1 2	4 ..	1 ..	.. .. 1 ..	1 ..	.. .. 2 ..	1 ..	.. .. 1 ..	1 ..	.. .. 1 ..	..
76	Unclassified.....	1,798	{ Males..... Females..... Unk.....	922 75 874 49 2 ..	70 79 63 74	68 97	64 70	69 67	71 66	77 82	89 75	73 69	92 76	92 83	3 3	..

deaths in Michigan, 1896, by sex, months of deaths and periods of age.

Ages in years under five.					Ages of decedents by five-year periods, 1896.																	Unknown.	Line number.
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +		
1					1	2	6	6	1	1	1	5	2	2	5	6	17	9	11	11	8		69
			1		1	3	4	3	4	5	3	1	6	3	4	6	2	8	9	5	6		
8		1			9	3	4	6	4	7	3	5	5	6	2	7	5	10	10	2	4	2	70
2					2		2	6	16	11	13	12	6	5	4	3	5	7	2	5	4	1	
21	6	4	1	1	33	3	4	1		2		1		1	1	1	3	1	2	3	2		71
18	6	2	2	2	30	5	2	2	5	1	1	3	1	1		2	1	3		4	2		
38	5	1	1		45	1	2	1	3	2	4	3	2	3	10	12	15	17	21	6	3	1	72
26	2	1	2		31	1	3	6	5	6	5	11	7	5	11	4	9	14	15	7	4	4	
5	1	1	1		8		2		1	1	2		2	1	3	3	2	5	7	2	1		73
3	1				4		1	3	2	2	3	5	3	4	6	1	3	7	8	2	1	2	
33	4				37	1		1	2	1	2	3		2	7	9	13	12	14	4	2	1	74
23	1	1	2		27	1	2	3	3	4	2	6	4	1	5	3	6	7	7	5	3	2	
6					6								1	1									75
6	1				7				1	2								2					
183	16	6	4	5	214	11	12	9	13	12	15	8	14	18	23	27	25	29	68	110	307	7	76
146	18	10	6	4	184	21	6	14	16	17	11	26	11	15	24	11	25	40	70	107	269	7	
1					1																	1	

Table 64.—Important diseases and groups of diseases returned as causes of

Line number.	Causes of deaths, 1896.	Counties—Alcona																
		State.	Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
1	TOTAL DEATHS.....	21,983	33	28	378	156	91	50	40	183	535	78	387	248	411	185	72	118
2	SPECIFIED DISEASES.....	17,521	21	21	317	107	70	42	32	153	425	60	312	217	348	153	54	85
3	<i>Dangerous Communi-</i>	4,258	5	3	67	22	14	10	13	27	129	15	88	49	74	37	10	18
4	<i>cable Diseases.....</i>																	
5	Consumption.....	2,093	3	2	42	11	4	7	10	20	50	9	43	28	48	28	8	10
6	Other tubercular dis-	191			2	1				2	1		1	5	3	2		
7	eases.....																	
8	Marasmus.....	76																
9	Meningitis, Tuber.	32				1				1				1		1		
10	Scrofula.....	16			2													
11	Tabes mesenterica.....	46								1	1		1	3	2			
12	Other forms of tuber-	21												1	1	1		
13	culosis.....																	
14	Croup.....	211				2			1		12		6			1	1	1
15	Croup, Membranous.....	51			1						1		2		2			
16	Diphtheria.....	649			3		1			2	27		22	8	5	2		3
17	Erysipelas.....	62				1	1				1		1	1	4	1		
18	Fever, Puerperal.....	46			2						1		1	1	1			
19	Fever, Scarlet.....	106						1			3				2			
20	Fever, Typhoid.....	539	1	8	1	1	2	2	3	12	1	8	5	7	2	1	2	
21	Fever, Typho-mal.....	14			1		1				1		2	1				
22	Fever, Typhus.....	2									1							
23	Glanders.....																	
24	Measles.....	121				4					18	3	1					
25	—German (Rotheln).....	1																
26	Smallpox.....	13																
27	Chickenpox.....	1											1					
28	Whooping cough.....	158	2		8	2	6				1	2			2	1		2
29	Bladder diseases.....	83	1		1						3				1			
30	Calculus.....	21	1								1							
31	Cystitis.....	41			1						2				1			
32	Bladder disease, etc.....	21																
33	Bowel diseases.....	1,803	3	10	23	13	5	8	4	12	38	5	22	21	23	9	3	7
34	Bowels, Inflammation of.....	344		1	4	6	1	2		3	10	1	5	3	4	1		4
35	Diarrhea.....	212			5	3			1	2	4		1	1	3			
36	Cholera infantum.....	651	1	8	7		1	4	2	5	13	1	7	7	9	8	3	1
37	Dysentery.....	76			1	1				1		2	2	1	1			2
38	Peritonitis.....	107			1	1			1				1	2				
39	Bowel disease, etc.....	413	2	1	5	2	3	2		1	11	1	6	7	6			

deaths in Michigan during the year 1896, showing their distribution by counties.

to Keweenaw.

Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	G'd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Line number.
200	45	232	22	187	197	246	116	489	21	214	139	185	285	476	259	380	307	98	64	156	496	414	34	1,181	27	1
164	26	200	15	127	148	213	71	428	16	138	124	159	254	339	199	323	258	64	39	124	430	355	25	989	15	2
49	9	48	7	25	37	43	17	53	2	34	33	37	43	96	69	63	70	14	8	42	104	73	8	217	4	3
23	3	29	2	6	17	25	9	33	15	18	20	30	34	23	26	40	8	5	24	37	48	3	122	3	4	
		1		4	2	1	2	2			1		4	10		4	3	1	1		3	2	1	14	1	5
							1																	3		6
				4										4					1			1		2	1	7
		1						1						4				1			1			3		8
					2	1	1	1			1		3	2		3	2				2	1		3		9
													1			1	1						1	3		10
3		1	1	5	6	1		2		2	2	1	1	4			2	3			1	2		10		11
		2						1		1		1		1						1	2			6		12
7	1		2	4	1	4		1		1	4	2	2	25	22	1	3			5	37	3	1	14		13
1		1				1	1			1	1	1	1			4	2			1	1	2		3		14
2	2			2				2							1			1			2	2		2		15
7		1			3	2			1			2		1	6					1		1		8		16
1	2	11	1	3	3	5	4	7		7	4	8	5	5	12	23	17			5	15	10	2	23		17
								1																		18
																						1				19
																										20
1	1			1				3	1	7	3			13	2		1		2	4		2		1		21
																										22
																										23
																										24
4		2	1		5	4	1	1				2		3	3	5	2	1		1	6		1	8		25
							1	3				1	3			4	2				4	3		7		26
								1																1		27
							1	2				1	3			2		2			1	3		5		28
																					3		1		29	
17	2	14	2	26	56	14	7	44	5	30	12	17	20	44	22	31	20	10	5	16	39	25	3	90	4	30
2		1		7	7	3	2	7	1	3	1	3	6	9	8	6	4	1	4	1	8	4		18		31
2		2	2	1	1	1					1		5	20	1	2	1	1	1	2	1	6		13		32
10		5		9	46	4	5	17	4	10	6	12	2	6	11	17	7	7		9	12	3	1	26	3	33
1		1		3				4		15	1	1	1							2		1		1		34
				4	1			4			2	1	1	1		3	4				7	4	1	15		35
4		5		2	1	6		12		2	1		5	8	2	3	3	2		2	11	7	1	17	1	36

Table 64.—CONTINUED.—Important diseases returned as

Line number.	Causes of deaths, 1896.	Counties—Alcona																
		State.	Alcona.	Alger.	Allegan.	Alpena.	Antrim.	Arenac.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun.	Cass.	Charlevoix.	Cheboygan.
37	Brain diseases.....	1,876	---	2	43	13	9	1	1	15	38	4	28	32	46	17	5	8
38	Apoplexy.....	337	---	---	8	2	---	---	---	4	6	2	7	6	11	---	---	---
39	Brain, Congestion of.....	65	---	---	1	---	---	---	---	1	3	---	1	---	1	---	---	1
40	Brain, Inflammation of.....	298	---	2	6	5	---	---	1	---	9	---	---	1	2	1	---	3
41	Epilepsy.....	59	---	---	3	---	---	---	---	---	3	---	---	1	---	1	1	---
42	Meningitis.....	192	---	---	2	1	2	---	---	2	4	---	2	2	3	---	---	2
43	Paralysis.....	745	---	---	17	1	7	1	---	8	12	2	16	20	23	15	4	2
44	Brain disease, etc.....	180	---	---	7	3	---	---	---	---	1	---	2	2	6	---	---	---
45	{ Cancer.....	780	1	---	15	4	1	2	2	8	13	5	13	10	18	0	---	4
46	{ Tumor.....	161	---	---	3	---	---	---	---	3	2	---	6	2	4	---	1	---
47	Childbirth.....	243	1	---	3	5	1	2	1	3	9	1	5	1	4	3	---	1
48	Convulsions.....	506	1	2	4	6	2	---	1	---	15	1	7	4	1	4	3	1
49	Diabetes.....	122	---	---	4	1	---	---	---	1	1	---	2	4	4	1	1	1
50	Dropsy.....	442	1	---	6	5	4	1	1	8	12	---	7	13	11	5	4	2
51	Fever (unspecified).....	87	---	---	---	1	3	2	---	1	3	---	3	1	2	1	---	---
52	Fever, Malarial.....	101	---	---	5	2	1	1	---	---	3	1	1	1	---	---	---	---
53	Heart diseases.....	1,491	1	2	26	8	4	4	2	19	29	6	24	15	43	27	9	11
54	Pericarditis.....	77	---	---	4	---	1	---	---	4	---	---	---	---	4	---	---	3
55	Heart disease, etc.....	1,025	---	1	15	7	3	4	2	14	18	5	14	10	29	11	8	4
56	"Heart failure".....	389	1	1	7	1	---	---	---	1	11	1	10	5	10	16	1	4
57	Influenza.....	248	---	1	6	---	4	---	---	3	3	1	6	6	2	2	---	1
58	Kidney diseases.....	634	1	---	10	1	3	---	---	7	6	5	10	7	17	4	4	1
59	Kidneys, Inflammation of.....	478	1	---	8	---	3	---	---	5	6	4	8	6	12	3	2	---
60	Kidney disease, etc.....	146	---	---	2	1	---	---	---	2	---	1	2	1	5	1	2	1
61	Liver disease, etc.....	203	---	---	7	---	1	---	---	1	3	2	4	3	3	4	1	1
62	Lung diseases.....	1,889	4	1	41	7	9	3	3	17	60	7	26	11	39	11	7	14
63	Asthma.....	74	---	---	2	2	1	---	---	3	1	---	3	1	1	---	---	---
64	Bronchitis.....	181	---	---	3	1	2	---	1	---	5	---	2	---	1	---	---	---
65	Pleurisy.....	37	---	---	---	---	---	---	---	---	2	---	1	---	---	---	---	---
66	Pneumonia.....	1,386	4	1	33	4	6	3	2	10	44	7	16	8	34	10	7	14
67	Lungs, Congestion of.....	54	---	---	1	---	---	---	---	3	---	---	2	---	1	---	---	---
68	Lung disease, etc.....	157	---	---	2	---	---	---	---	1	8	---	2	2	2	1	---	---
69	Rheumatism.....	167	---	---	2	2	2	---	---	4	2	---	6	3	11	2	---	---
70	Septicemia.....	198	---	---	4	2	1	1	2	3	3	---	3	4	4	3	1	3
71	Spine disease, etc.....	121	---	---	---	---	2	2	---	1	4	1	2	1	1	2	---	1
72	Stomach diseases.....	299	---	---	12	2	1	---	---	2	12	---	4	7	3	---	---	2
73	Stomach, Inflammation of.....	97	---	---	3	1	1	---	---	1	3	---	---	2	1	---	---	---
74	Stomach disease, etc.....	202	---	---	9	1	---	---	---	1	9	---	4	5	2	---	---	2
75	Syphilis.....	21	---	---	---	---	---	---	---	---	1	---	---	---	---	---	---	---
76	Unclassified.....	1,798	2	---	35	13	3	5	2	18	36	6	45	22	37	12	5	6

## CAUSES OF DEATHS BY COUNTIES

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*causes of deaths in Michigan during the year 1896, by counties.*

to Keweenaw.

Chippewa.	Clare.	Clinton.	Crawford.	Delta.	Dickinson.	Eaton.	Emmet.	Genesee.	Gladwin.	Gogebic.	G'd Traverse.	Gratiot.	Hillsdale.	Houghton.	Huron.	Ingham.	Ionia.	Iosco.	Iron.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Keweenaw.	Line number.
5	1	27	2	10	4	25	13	49	2	8	20	18	23	29	13	37	40	4	2	8	78	75	2	135	1	37
2		5	3			2	1	7		1		4	4	5	2	7	7	1		1	25	19		27		38
		12					1					1	12	1	1						1	12		5		39
2		1	4	3		1	2	5	1	2	2	1		7	3	3	4	1	1	1	3	1	1	18		40
		1				1		4					1	1		1	1		1		2	5		9		41
	1	2				4	4	3		4		3	1	1	1	3	4			2	13	3	1	18		42
	15	1	2	3		12	5	28		1	3	6	13	6	5	20	20	1		3	31	33		51		43
1		1		1	5			2	1		15	3	2	2	1	3	4	1		1	3	12		7	1	44
3	2	9	2	1	10	2	26		1	4	6	6	11	8	8	14	1		3	16	25	1	54	1	45	
1		1	1			3		4			2	2		10	1	4	1		1	1	1	3		7		46
3		1	1	3	2			1		2	2		3	12	5	9	2	4	1	6	4	2		7		47
8	1	3	2	1		4	5		6				1	13	12	1	2	1	2		2	4	1	24	1	48
	4		1	3		4	1		1	1	4		4		2	4	2			1	5	3		5		49
	2	5	1	4	2	3	1	12	1	2	3	2	13	1	4	7	7	2		1	4	6	1	22		50
6			1	1	1		2						1	3		1	1					1		5		51
1	1				1		4					1	2		1	1	5			1	1	5		1		52
9	4	19	8	3	33	6	41		9	16	19	37	14	10	38	19	3	5	6	36	31	2	92	2	53	
1	2				2								1							1	3	1		2		54
6	4	10	5	2	21	1	31		5	14	12	19	10	6	26	14	3	5	4	26	24	2	78	2	55	
2	7		3	1	10	5	10		4	2	7	17	4	4	12	5			1	7	6		12		56	
3	3	4					6				2	5	4	4	2	12	6			2	3	4		5		57
5	10		5	1	14	6	16	1	1	8	7	13	13	5	11	11	1		7	25	16	2	32		58	
3	7		5	10	5	13	1	1	5	6	10	10	3	10	10	1	10	1		6	18	14	2	22		59
2	3		1	4	1	3		3		3	1	3	3	2	1	1			1	7	2		10		60	
1					3		6		1		2	6	6	1	3	5	1		3	3	7		15		61	
27	1	23	2	31	26	14	7	66		33	10	15	14	56	21	46	20	2	11	10	30	33		116	1	62
1		1	1	1	1	1					1			1		2				2	2		5		63	
6	1		2	2			4		5	1	1		16	1	2	1			1		1		17		64	
	2													1	3	1		1						3		65
17	1	19	1	29	15	11	6	55		25	7	10	12	36	14	31	18	1	4	10	23	27		66	1	66
1	1					1		3			1		1	1		6					3	1		5		67
2			8			1		4		3		4	1	1	3	4	1		5		2	2		20		68
1	2		2			5	1	6	1		3	3	1	3	2		5	2		1	2	5		11		69
	1					4		3			1	6	11	3	2	6	1	1		2	2	1		18		70
1	2		2			3		1		1		1	1	1	3	3	1	2		3	7	1	1	6		71
3	7		2	1	2		11		1	3	1	3	2	5	3	4	4		3	6	7	1	15		72	
1	3		1	1	2		5			1	2		1	2	1	1	2		2	2		1	8		73	
2	4		1				6		1	2	1	3	2	3	2	3	2		2	1	4	7		7		74
													1											5		75
21	1	19		8	9	30	6	65	3	9	4	15	44	24	11	31	20	12	4	8	58	24	3	106	1	76

Table 64.—CONTINUED.—*Important diseases returned*

Line number.	Causes of deaths, 1896.	Counties—Lake																	
		Lake.	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Mackinac.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.	Missaukee.	Monroe.	Montcalm.	Montmorency.
1	TOTAL DEATHS.....	35	205	90	422	132	33	69	317	312	553	158	154	343	108	46	333	292	31
2	SPECIFIED DISEASES	25	163	61	373	118	26	52	267	233	415	110	126	237	88	26	277	230	18
3	<i>Dangerous Commu- nicable Diseases</i> {	5	37	28	80	15	6	16	69	68	107	19	36	93	24	8	85	58	4
4	Consumption.....	2	21	15	59	10	5	10	32	20	39	12	21	20	7	2	46	32	..
5	<i>Other tubercular diseases</i> {	---	1	1	2	---	---	---	3	---	15	---	4	1	1	---	3	3	1
6	Marasmus.....	---	---	---	---	---	---	---	1	---	11	---	---	---	---	---	---	---	---
7	Meningitis, Tuber.	---	---	---	1	---	---	---	2	---	4	---	---	---	---	---	1	---	---
8	Scrofula.....	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	---	---
9	Tabes mesenterica	---	---	---	---	---	---	---	---	---	---	---	3	---	1	---	1	3	1
10	<i>Other forms of tuberculosis</i> {	---	1	1	1	---	---	---	---	---	---	---	1	---	---	---	---	---	---
11	Croup.....	1	---	---	---	---	---	---	4	11	3	1	1	3	---	1	2	1	---
12	Croup, Membranous	---	1	1	---	---	---	---	4	1	---	---	2	1	---	---	3	---	---
13	Diphtheria.....	---	1	5	6	---	---	---	15	8	31	1	1	35	7	---	6	10	2
14	Erysipelas.....	---	1	---	2	1	---	---	---	1	1	2	---	---	2	1	2	2	---
15	Fever, Puerperal	---	---	1	1	---	---	---	3	2	---	---	---	---	1	---	4	---	---
16	Fever, Scarlet.....	---	---	---	---	---	---	---	---	1	1	1	1	1	---	---	---	2	1
17	Fever, Typhoid.....	2	12	2	9	3	---	2	5	19	12	---	4	27	---	3	16	5	---
18	Fever, Typho-mal.	---	---	---	---	---	---	---	2	---	---	1	---	---	---	---	---	---	---
19	Fever, Typhus.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	Glanders.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
21	Measles.....	---	---	3	1	1	1	---	---	4	1	---	---	5	1	---	---	1	---
22	—German (Rötheln)	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	Smallpox.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	Chickenpox.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
25	Whooping cough.....	---	---	---	---	---	---	4	1	1	4	1	2	---	5	1	3	2	---
26	Bladder diseases.....	---	1	---	2	1	---	---	2	---	1	1	---	---	---	---	5	3	---
27	Calculus.....	---	1	---	---	---	---	---	---	---	1	1	---	---	---	---	1	---	---
28	Cystitis.....	---	---	---	2	---	---	---	---	---	---	---	---	---	---	---	4	3	---
29	Bladder disease, etc.	---	---	---	---	1	---	---	2	---	---	---	---	---	---	---	---	---	---
30	Bowel diseases.....	2	18	3	29	10	2	6	14	29	67	16	15	28	15	2	24	21	1
31	Bowels, Inflam'tion of	---	3	---	1	3	---	1	6	9	17	4	2	3	1	1	4	6	---
32	Diarrhea.....	---	2	---	2	---	---	3	2	7	1	4	1	8	---	1	6	2	---
33	Cholera infantum.....	1	11	---	11	3	2	2	4	7	35	3	10	4	11	---	8	7	1
34	Dysentery.....	---	---	---	4	---	---	---	---	1	2	---	---	1	---	---	---	---	---
35	Peritonitis.....	---	---	---	1	1	---	---	---	---	9	---	---	1	---	---	---	1	---
36	Bowel disease, etc.	1	2	3	10	3	---	---	2	5	3	5	2	11	3	---	6	5	---

## CAUSES OF DEATHS BY COUNTIES

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*as causes of deaths in Michigan during the year 1896, by counties.*

to Wexford.

Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Line number.
361	111	370	135	18	56	118	17	39	321	36	8	957	259	50	224	441	250	257	307	421	4,014	117	1
283	83	286	100	11	33	107	13	27	262	21	7	798	191	35	198	350	207	202	263	361	3,091	87	2
95	23	46	28		12	35	2	4	65	4	2	164	51	8	32	103	46	31	56	60	837	16	3
40	14	33	20		10	15		1	40	1	1	93	27	6	21	42	38	19	35	47	301	10	4
	1	1			1	1			2			4	3			1					68		5
												1									59		6
					1							1	1			1					3		7
						1																	8
	1								1					2							3		9
		1							1				2								3		10
3			1					2				9				3			2	1	89	2	11
		2							3			5	1						1		5		12
28	1	3	1			6	2		9			15	8	1	4	17		2			211		13
2						3			1		1	1				2			2	1	2	1	14
									2			2	1						3		4		15
7		2	1						1			1				19				1	27		16
11	3	5	4		1			1	4	3		22	8	1	5	15	4	3	11	8	78	2	17
1												2	1										18
																							19
																							20
1	2					4			1			3			1		1	4	1		17		21
												1											22
																	1				12		23
																							24
2	2		1			6			2			6	2		1	3	3	3	1	2	23	1	25
2		1							1	1		4	1			2	2	1	3	3	10	2	26
									1	1		2	1				1		1	1	3	2	27
1		1										2				2	1	1	1	2	5		28
1																					1		29
27	8	25	8	1	8	8	3		20	3	2	87	10	4	27	34	14	24	23	25	347	12	30
6	2	4	1	1		2	1		7	1	1	25	1	1	6	12	2	8	6	2	43		31
3		1				1	1		3	1	1	6	1		4	2	1		2	3	59	2	32
3	5	8	3		8	3			5			29	6	1	8	14	5	12	10	14	81	7	33
		4							2			2			1	2			1	1	12		34
8		3					1		1			2			1		1			3	19	1	35
7	1	5	4			2			2	1		23	2	2	7	4	5	4	4	2	133	2	36



Table 64.—CONCLUDED.—Important diseases returned

Line number.	Causes of deaths, 1896.	Counties—Lake													
		Lake.	Lapeer.	Leelanau.	Lenawee.	Livingston.	Luce.	Macatawa.	Macomb.	Manistee.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.
37	Brain diseases.....	2	14	---	43	16	1	6	31	16	39	17	14	13	7
38	Apoplexy.....	1	6	---	4	5	1	1	6	2	4	2	3	2	2
39	Brain, Congestion of.....	---	---	---	---	1	---	---	---	2	2	1	---	---	---
40	Brain, Inflam'tion of.....	---	2	---	4	1	---	3	14	5	4	5	4	2	1
41	Epilepsy.....	---	---	---	---	1	---	1	---	1	2	---	---	---	1
42	Meningitis.....	---	2	---	1	---	---	---	1	2	18	3	1	3	---
43	Paralysis.....	1	4	---	28	7	---	1	7	2	5	6	6	1	4
44	Brain disease, etc.....	---	---	---	6	1	---	---	3	2	4	---	---	5	---
45	Cancer.....	3	8	---	22	6	---	1	14	6	17	6	7	8	5
46	Tumor.....	1	5	---	4	3	---	---	4	2	3	2	1	---	---
47	Childbirth.....	1	1	---	6	3	---	5	2	5	2	3	2	2	3
48	Convulsions.....	1	2	1	8	1	2	---	4	9	13	4	---	32	2
49	Diabetes.....	---	5	---	4	1	---	1	2	1	---	---	1	3	---
50	Dropsy.....	---	6	2	13	---	1	1	14	4	1	1	6	1	2
51	Fever (unspecified).....	---	1	6	---	2	---	2	---	15	1	---	---	---	1
52	Fever, Malarial.....	---	---	---	---	---	---	---	4	1	---	2	2	---	---
53	Heart diseases.....	3	18	5	45	17	4	5	24	6	19	5	8	10	8
54	Pericarditis.....	---	2	---	3	2	---	---	3	---	---	---	4	2	1
55	Heart disease, etc.....	3	14	1	32	12	1	5	14	5	19	4	3	7	3
56	"Heart failure".....	---	2	4	10	3	3	---	7	1	---	1	1	1	4
57	Influenza.....	1	4	---	4	4	---	1	3	2	4	---	1	1	---
58	Kidney diseases.....	---	3	2	13	3	---	2	8	2	10	7	8	6	2
59	Kidneys, Inflam'tion of.....	---	3	1	6	2	---	2	8	2	7	6	8	3	1
60	Kidney disease, etc.....	---	---	1	7	1	---	---	---	---	3	1	---	3	1
61	Liver disease, etc.....	---	3	2	1	2	---	---	1	4	2	1	2	---	---
62	Lung diseases.....	1	16	5	46	10	1	1	23	36	77	12	6	17	5
63	Asthma.....	---	---	---	5	2	---	---	3	1	---	---	---	---	---
64	Bronchitis.....	---	---	---	1	---	---	---	1	2	26	---	1	2	---
65	Pleurisy.....	---	---	---	1	---	---	---	---	---	3	1	---	---	---
66	Pneumonia.....	1	15	5	36	7	---	1	15	33	43	9	5	12	4
67	Lungs, Congestion of.....	---	1	---	3	1	---	---	---	---	2	---	---	1	---
68	Lung disease, etc.....	---	---	---	---	---	1	---	4	---	3	2	---	3	---
69	Rheumatism.....	1	2	---	---	---	1	---	2	2	2	2	---	1	---
70	Septicemia.....	---	1	---	6	3	---	---	4	4	6	1	1	1	3
71	Spine disease, etc.....	---	---	2	---	2	1	---	2	---	1	2	1	---	3
72	Stomach diseases.....	1	3	---	9	1	---	---	2	4	4	3	7	---	1
73	Stomach, Inflam't'n of.....	---	1	---	1	---	---	---	---	1	1	---	4	---	---
74	Stomach disease, etc.....	1	2	---	8	1	---	---	2	3	3	3	3	---	1
75	Syphilis.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
76	Unclassified.....	3	15	5	38	18	7	5	38	17	39	6	8	21	7

## CAUSES OF DEATHS BY COUNTIES

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*as causes of deaths in Michigan during the year 1896, by counties.*

to Wexford.

Muskegon.	Newaygo.	Oakland.	Oceana.	Ogemaw.	Ontonagon.	Oscoda.	Oscoda.	Otsego.	Ottawa.	Presque Isle.	Roscommon.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.	Wexford.	Line number.
24	7	37	9		3	8	2	2	32	1	1	73	13	3	28	36	41	24	39	52	252	6	37
10	1	7	1		1	3			6			10	4	1	1	9	5	8	6	7	45		38
	1	1	1							1		7	1	1	1	1	1	1	1	1	12	5	39
4	1	2			2	2	2	1	9			14	5		2	8	3	2	3	6	73		40
1		2	3						1			1	1		2		2	1			1		41
2	1	3						1	1			14			3		1	1	3	3	32	1	42
5	3	20	2			3			15		1	19	2	2	14	15	27	8	23	32	73		43
2		22	2									8	1		5	4	2	3	3	3	16		44
11	3	14	3	1		6		4	15			56	9		9	10	14	11	11	24	131	3	45
2		3							3	1		12	5			1	1	1	4	12	25		46
2	2		6	1	1	2		1	1	1		7	3	1	5	4	2	5	2	3	31		47
4	1	3	1		3	4			1			35	1	1	3	2	3	2		8	194	4	48
1			2	1		1			2			8			2	4	3	4	2		12		49
10	6	5	1	3		2		3	10	3		12	7		7	10	8	7	13	7	75	3	50
1									2			3	1	1	1	2			1		5	1	51
		1							1	1		5	2			7	2	5	2	1	21		52
26	7	31	13		1	4		4	22			66	14	4	29	28	20	28	35	44	200	12	53
2	2	2	1						2			4			1	1			2	3	2	1	54
19	1	23	7		1	3		3	20			47	13	4	22	18	17	15	27	31	137	7	55
5	4	6	5			1		1				15	1		6	9	3	13	6	10	61	4	56
		3	4		1	2	1	1	3			6	6		10	6	8	2	9	4	41	1	57
9	5	13	3	2	7	5		1	11			31	9		7	11	9	14	10	17	101	1	58
5	3	7	3	2	1	3		1	8			26	6		6	9	7	13	7	14	79	1	59
4	2	6				2			3			5	3		1	2	2	1	3	3	22		60
2		7				3			5			17	1		4	4	3	1	2	4	27	2	61
32	4	32	10			13	3	3	32	1	1	90	21	7	15	26	6	11	25	21	355	9	62
		1				1			2			1			1	2		1		1	18		63
2	1	1				1			3		1	14	1		3	2			1		39	1	64
		2											1	1		1			1	1	10		65
27	3	27	9			9	3	2	23	1		63	19	4	7	20	5	10	20	18	247	8	66
1			1						2			3			1		1				6		67
2		1				2		1	2			9		2	3	1	1		3	1	35		68
	1	1			1	1			2			3	2		5	5	3	2	4	4	19	1	69
	1	1	1		2				2			4	5		2	2	4	2	3	3	29	2	70
4	3	1	1					1	1			3	6			6	1		1	5	11	1	71
2		4	1			3		1	3			19	1	3	2	10	4	6	3	8	50	3	72
1		1	1			1			2			7				2	1	4	1	3	12	1	73
1		3				2		1	1			12	1	3	2	8	3	2	2	5	38	2	74
			1																		12		75
29	12	38	8	2		10	2	2	28	5	1	93	23	3	10	37	13	21	15	56	306	8	76

Table 65.—*Important diseases and groups of diseases returned as*

Line No.	Causes of deaths, 1869-96.	Years.											
		1896.	1895.	1894.	1893.	1892.	1891.	1890.	1889.	1888.	1887.	1886.	1885.
1	TOTAL DEATHS.....	21,983	22,757	20,959	21,982	21,729	22,079	21,642	20,315	21,764	19,482	18,187	16,646
2	SPECIFIED DISEASES.....	17,521	18,467	16,975	17,911	17,578	18,115	17,612	16,767	18,114	16,257	15,305	13,766
3	<i>Dangerous Communi- cable Diseases.....</i>	4,258	4,591	4,387	5,053	5,029	5,180	5,254	4,762	5,483	5,249	4,976	4,431
4	Consumption.....	2,093	2,396	2,206	2,154	2,080	2,060	2,207	2,137	2,424	2,127	2,051	1,964
5	<i>Other tubercular dis- eases.....</i>	191	254	227	* 196	208	176	199	116	141	142	150	147
6	Marasmus.....	76	125	92	* 89	109	90	74	16	30	21	57	60
7	Meningitis, Taber. .	32	29	41	* 38	33	27	41	43	47	62	40	34
8	Scrofula.....	16	21	23	* 21	17	16	34	26	22	27	25	25
9	Tabes mesenterica..	46	60	57	* 27	37	23	32	21	31	24	21	19
10	<i>Other forms of tuberculosis.....</i>	21	19	14	* 21	12	20	18	10	11	8	7	9
11	Croup.....	211	136	136	217	211	253	415	* 357	384	282	296	291
12	Croup, Membranous..	51	47	44	42	80	35	56	* 46	90	117	104	46
13	Diphtheria.....	649	594	642	959	1,020	1,060	1,266	849	723	935	1,117	1,054
14	Erysipelas.....	62	68	43	57	64	66	46	52	82	70	63	68
15	Fever, Puerperal.....	46	32	33	42	42	35	26	32	51	33	30	38
16	Fever, Scarlet.....	106	116	163	360	442	400	222	240	323	318	319	245
17	Fever, Typhoid.....	539	660	536	689	626	684	465	637	638	770	498	387
18	Fever, Typho-mal. ....	14	23	22	28	23	16	27	* 43	31	52	25	7
19	Fever, Typhus.....	2	6	2	4	6	7	11	4	3	7	2	1
20	Glanders.....		*			1							
21	Measles.....	121	44	84	127	72	225	+ 229	104	414	285	129	38
22	—German (Rötheln)....	1	2	2	1	2						*	
23	Smallpox.....	13	71	85	3	1	1	6	3	3		6	3
24	Chickenpox.....	1	2	4	2	4	4	4	2	2	1	1	4
25	Whooping cough.....	158	140	158	172	147	158	75	140	174	110	185	138
26	Bladder diseases.....	83	51	43	41	50	32	33	40	29	49	40	41
27	Calculus.....	21	11	13	10	11	12	10	7	14	17	12	21
28	Cystitis.....	41	24	25	25	22	17	12	20	5	24	23	15
29	Bladder disease, etc. ....	21	16	5	6	17	3	11	13	10	8	5	5
30	Bowel diseases.....	1,803	2,193	2,060	2,035	1,631	1,900	1,844	1,961	1,947	1,818	1,726	1,210
31	Bowels, Inflammation of	344	339	396	433	334	353	315	352	390	339	327	324
32	Diarrhea.....	212	323	234	371	277	292	325	450	371	414	378	261
33	Cholera infantum.....	651	971	891	833	606	799	592	722	787	626	653	360
34	Dysentery.....	76	100	100	79	74	89	128	158	153	183	158	105
35	Peritonitis.....	107	125	102	83	89	116	98	50	46	35	32	22
36	Bowel disease, etc. ....	413	335	337	236	251	251	386	229	220	221	178	138

NOTE.—The arrangement of causes of death is uniform in Tables 63-67. See text beginning on page 158, to which reference may be made by line numbers.

## CAUSES OF DEATHS, TWENTY-EIGHT YEARS, 1869-96

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*causes of deaths in Michigan for each of the years 1869-96, inclusive.*

1869-96.																Line No.
1884.	1883.	1882.	1881.	1880.	1879.	1878.	1877.	1876.	1875.	1874.	1873.	1872.	1871.	1870.	1869.	
18,056	16,906	16,425	19,238	16,102	14,402	12,766	12,919	12,576	11,990	12,500	14,258	13,371	9,728	10,766	9,145	1
15,133	13,664	13,366	15,922	13,024	11,516	9,922	10,076	9,901	9,257	9,870	11,798	11,243	7,911	8,824	7,292	2
5,053	5,082	5,279	6,533	5,262	4,857	3,919	3,833	3,569	3,271	3,322	4,028	4,065	3,082	3,561	2,645	3
2,198	1,992	1,804	1,954	1,829	1,680	1,641	1,664	1,590	1,479	1,392	1,447	1,467	1,303	1,451	1,233	4
183	126	162	174	144	112	125	138	134	128	129	156	149	119	143	80	5
44	9	52	37	26	9	6	11	8	3	8	10	3	-----	1	-----	6
49	48	48	64	42	43	55	60	68	60	59	81	84	65	65	11	7
42	25	29	31	32	36	33	32	26	34	23	43	40	38	60	55	8
34	32	26	36	28	16	16	23	22	19	28	15	15	12	9	8	9
14	12	7	6	16	8	15	12	10	12	11	7	7	4	8	6	10
285	284	303	316	257	233	199	145	157	156	132	166	153	146	124	105	11
40	52	46	64	65	45	37	19	21	11	10	6	10	9	3	-----	12
1,065	1,007	1,416	12,063	1,542	1,480	889	595	327 *	213	216	219	196	121	121	89	13
71	85	82	86	88	92 *	75	69	86	108	104	158	151	87	68	69	14
29	45	31	57	39	41 *	16	25	32	42	54	51	44	26	38	21	15
326	673	592	384	371	418	429 +	404	399	423	440 *	580	565	696	852	252	16
514	439	463	884	513	397	329	446	426	433	611 *	677	621	357	574	437	17
29	11	32	49	9	7	18	4	6	-----	-----	7	1	-----	-----	-----	18
5	11	10	19	11 *	14	5	29	11	14	16	17	31	8	1	9	19
-----	-----	-----	-----	-----	1	1	-----	-----	-----	-----	-----	1	-----	-----	-----	20
144	258	150	256	125	167	16	62	118	134	46 *	245	180	67	56	147	21
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	22
3	5	101	82	3	6	6 +	102	76	26	18 *	92	302	74	10	42	23
1	2	1	3	2	2	1	-----	5	3	1	1	2	1	1	3	24
160	92	86	142	264	162	132	131	181	101	153 *	206	192	68	119	158	25
36	39	16	28	45	35	37	30	44	40	34	37	33	32	34	30	26
16	16	6	14	23	23	23	16	34	21	20	25	23	24	25	24	27
12	17	6	10	16	6	10	11	6	14	7	9	6	4	7	6	28
8	6	4	4	6	6	4	3	4	5	7	3	4	4	2	-----	29
1,921	1,315	1,257	2,201	1,443	1,039	924	1,255	1,208	1,102	1,288	1,566	1,781	885	1,371	983	30
350	294	276	342	267	237	214	226	239	218	208	286	234	184	187	119	31
409	267	259	501	310	226	173	290	304	283	380	383	437	216	407	311	32
781	465	428	857	499	300	243	370	331	289	278	306	394	129	181	108	33
160	114	96	270	160	135	158	221	195	162	304	319	456	173	374	236	34
27	16	21	19	10	16	11	8	8	14	8	9	13	7	5	5	35
194	159	177	212	197	125	125	140	131	136	110	263	247	176	217	204	36

\* Year in which disease was placed on the list of diseases to be restricted by the State Board of Health, which was established in 1873.

+ Year in which active measures for restriction and prevention were undertaken.

Table 65.—CONCLUDED.—*Important diseases returned.*

Line No.	Causes of deaths, 1860-96.	Years											
		1896.	1895.	1894.	1893.	1892.	1891.	1890.	1889.	1888.	1887.	1886.	1885.
37	<i>Brain diseases</i> .....	1,876	1,907	1,829	1,709	1,534	1,614	1,544	1,511	1,615	1,441	1,435	1,304
38	Apoplexy.....	337	320	283	240	219	213	153	159	147	141	161	121
39	Brain, Congestion of.....	65	78	81	79	68	87						
40	Brain, Inflammation of...	298	279	302	307	292	315	318	341	405	319	332	296
41	Epilepsy.....	59	57	49	66	62	42	54	40	65	54	49	50
42	Meningitis.....	192	* 178	181	172	148	204	180	164	194	184	182	174
43	Paralysis.....	745	793	707	662	571	596	558	542	553	465	485	400
44	Brain disease, etc.....	180	202	226	183	174	157	281	265	251	278	226	263
45	{ Cancer.....	780	757	677	644	558	534	533	492	480	453	391	403
46	{ Tumor.....	161	172	149	156	139	157	123	102	108	93	91	104
47	Childbirth.....	243	259	213	222	244	255	196	254	250	236	223	230
48	Convulsions.....	506	458	412	520	548	547	349	453	513	474	431	452
49	Diabetes.....	122	100	106	111	69	78	63	74	71	61	68	65
50	Dropsy.....	442	470	400	446	389	397	422	337	464	342	334	330
51	Fever (unspecified).....	87	107	75	100	129	107	123	111	164	117	123	96
52	Fever, Malarial.....	101	127	91	122	146	133	146	197	200	171	168	142
53	<i>Heart diseases</i> .....	1,491	1,458	1,391	1,429	1,329	1,346	1,185	1,132	1,055	954	794	799
54	Pericarditis.....	77	90	88	80	97	70	70	61	86	107	64	69
55	Heart disease, etc.....	1,025	943	898	966	864	901	1,115	1,071	969	847	730	730
56	"Heart failure".....	389	425	405	353	368	375						
57	Influenza.....	248	* 410	402	555	907	1,076	1,084	176	2	2	3	2
58	<i>Kidney diseases</i> .....	624	578	549	479	442	407	331	347	351	327	322	304
59	Kidneys, Inflammation of...	478	429	414	375	332	271	227	242	241	226	244	215
60	Kidney disease, etc.....	146	149	135	104	110	136	104	105	110	101	78	89
61	Liver disease.....	203	218	162	166	121	167	140	158	172	154	120	147
62	<i>Lung diseases</i> .....	1,889	1,987	1,690	1,806	1,765	1,702	1,786	1,578	1,889	1,449	1,302	1,194
63	Asthma.....	74	95	74	79	65	77	74	59	65	59	66	62
64	Bronchitis.....	181	190	174	182	184	138	188	120	199	121	97	113
65	Pleurisy.....	37	33	29	28	30	24	27	25	46	25	20	16
66	Pneumonia.....	1,386	* 1,453	1,200	1,385	1,298	1,248	1,224	1,132	1,313	970	857	804
67	Lungs, Congestion of.....	54	79	81	77	87	99						
68	Lung disease, etc.....	157	137	132	115	101	116	273	242	266	274	262	196
69	Rheumatism.....	167	144	151	141	149	141	120	154	154	158	145	111
70	Septicemia.....	198	201	154	177	167	172	153	191	157	121	125	129
71	Spine disease, etc.....	121	134	103	105	94	106	110	124	114	95	131	88
72	<i>Stomach diseases</i> .....	299	310	249	233	178	182	177	153	172	165	118	125
73	Stomach, Inflammation of...	97	96	79	64	53	49	27	39	43	35	37	44
74	Stomach disease, etc.....	202	214	170	169	125	133	150	114	129	130	81	78
75	Syphilis.....	21	12	26	21	11	6	7	5	14	4	9	16
76	Unclassified.....	1,798	1,823	1,656	1,580	1,949	1,876	1,889	2,455	2,710	2,324	2,230	2,046

\* Placed on list of dangerous communicable diseases by State Board of Health in 1895. Active restrictive measures not yet taken.

*as causes of deaths in Michigan, 1869-96.*

1869-96.																Line No.
1884.	1883.	1882.	1881.	1880.	1879.	1878.	1877.	1876.	1875.	1874.	1873.	1872.	1871.	1870.	1869.	
1,353	1,188	1,215	1,353	1,118	944	889	1,001	1,011	850	893	1,655	1,161	679	687	663	37
132	87	89	111	123	105	95	86	107	94	63	81	70	70	54	65	38
310	293	276	361	301	222	225	291	275	232	261	333	330	216	233	226	40
43	45	48	63	41	42	31	35	31	31	30	33	28	25	18	12	41
238	229	227	332	159	104	110	138	123	166	185	812	360	24	11	13	42
397	345	357	260	279	262	242	244	233	172	171	171	154	144	122	120	43
233	189	218	226	215	209	186	207	242	155	183	225	219	200	249	227	44
361	383	301	310	285	272	269	266	241	203	188	172	133	105	120	113	45
85	58	68	86	76	65	56	45	41	55	34	48	31	32	23	20	46
244	238	213	202	201	210	173	166	158	194	209	269	236	158	146	127	47
436	344	356	337	348	275	288	298	275	258	258	306	315	238	281	256	48
49	58	52	49	44	42	33	39	19	36	27	31	35	33	29	25	49
324	296	317	283	272	271	256	236	236	237	245	271	231	228	270	251	50
133	117	131	193	191	136	124	106	174	132	187	203	219	187	201	289	51
186	153	193	241	147	125	125	141	108	116	144	201	208	153	163	121	52
791	762	627	620	551	538	444	448	394	350	411	396	366	291	311	274	53
70	73	64	101	68	84	76	53	54	68	71	69	56	49	43	23	54
721	689	563	519	483	454	368	395	340	312	340	327	310	242	268	252	55
2	1	2	3	5	3	2	6	2	12	6	2	2	2	2	2	57
264	264	206	187	154	113	113	93	80	54	63	68	60	59	45	32	58
191	196	145	112	95	54	45	45	32	23	31	32	27	24	12	3	59
73	68	61	75	59	59	68	48	31	32	36	33	35	33	29	29	60
154	140	145	143	125	124	141	126	121	112	121	132	135	103	110	71	61
1,210	1,204	1,216	1,262	1,279	1,107	859	789	394	1,137	1,223	1,043	962	700	625	621	62
61	51	50	37	39	39	31	25	25	20	20	21	25	17	22	24	63
98	83	100	64	50	49	44	42	42	43	32	20	25	19	20	11	64
18	20	16	19	26	20	16	14	19	14	15	18	20	12	11	9	65
840	827	834	941	920	794	552	559	695	846	937	793	701	482	405	455	66
193	223	216	201	244	205	216	159	215	214	219	191	191	170	167	122	67
133	113	107	123	85	85	61	76	70	74	73	72	101	51	44	49	68
94	113	80	52	18	6	8	5	5	4	2	2	1	1	1	1	70
114	108	94	139	76	83	78	85	75	72	120	174	101	33	39	39	71
120	125	106	127	89	99	85	77	76	73	73	83	72	49	67	34	72
39	42	33	44	31	32	30	20	22	27	24	36	29	24	23	15	73
81	83	73	83	58	67	55	57	54	46	49	47	43	25	44	19	74
14	9	6	3	13	10	2	7	6	7	9	6	3	2	10	2	75
2,058	1,553	1,380	1,448	1,199	1,075	1,035	942	996	844	944	1,023	985	809	686	647	76

**Table 66.**—*Important diseases and groups of diseases registered in Michigan during 1870-94, showing death rates per 100,000 population, and*

Line number.	Causes of deaths, 1870-96.	Rates per 100,000 population.							
		Year, 1896.	Year, 1895.	Year, 1894.	Five years, 1890 to 1894.	Five years, 1885 to 1889.	Five years, 1880 to 1884.	Five years, 1875 to 1879.	Five years, 1870 to 1874.
1	TOTAL DEATHS.....	949.4	998.7	935.0	1,000.0	976.8	993.8	870.6	963.0
2	SPECIFIED DISEASES.....	756.7	810.5	757.3	813.6	812.8	814.9	682.2	728.6
3	<i>Dangerous Communicable</i> <i>Diseases.</i> .....	183.9	201.5	195.7	229.8	252.3	311.8	261.9	246.9
4	{ Consumption.....	90.4	105.2	98.4	98.8	108.5	112.0	108.5	112.1
5	{ <i>Other tubercular diseases.</i> ...	8.2	11.2	10.1	9.3	7.0	9.0	8.5	11.0
6	Marasmus.....	3.3	5.5	4.1	4.2	1.9	1.9	.5	.3
7	Meningitis, Tuber.....	1.4	1.3	1.8	1.7	2.3	2.9	3.8	5.6
8	Scrofula.....	.7	.9	1.0	1.0	1.3	1.8	2.2	3.3
9	Tabes mesenterica.....	2.0	2.6	2.5	1.6	1.2	1.8	1.3	1.3
10	{ <i>Other forms of tuber-</i> <i>culosis.</i> .....	.9	.8	.6	.8	.5	.6	.7	.6
11	{ Croup.....	9.1	6.0	6.1	11.3	16.3	16.6	12.0	11.4
12	{ Croup, Membranous.....	2.2	2.1	2.0	2.4	4.1	3.0	1.8	.6
13	Diphtheria.....	28.0	26.1	28.6	45.6	47.4	81.3	47.2	13.9
14	Erysipelas.....	2.7	3.0	1.9	2.5	3.4	4.7	5.8	9.1
15	Fever, Puerperal.....	2.0	1.4	1.5	1.7	1.9	2.3	2.1	3.4
16	Fever, Scarlet.....	4.6	5.1	7.3	14.6	14.6	26.9	27.9	49.8
17	{ Fever, Typhoid.....	23.3	29.0	23.9	27.7	29.7	32.3	27.3	45.1
18	{ Fever, Typho-Malarial.....	.6	1.0	1.0	1.1	1.6	1.5	.5	.2
19	{ Fever, Typhus.....	.1	.3	.1	.3	.2	.6	1.0	1.2
21	Measles.....	5.2	2.0	3.8	6.8	9.8	10.7	6.7	9.5
23	Smallpox.....	.6	3.1	3.8	.9	.2	2.2	2.9	7.9
24	Chickenpox.....	.0	.1	.2	.2	.1	.1	.1	.1
25	Whooping cough.....	6.8	6.1	7.0	6.6	7.5	8.5	9.5	11.8
26	Bladder diseases.....	3.6	2.2	1.9	1.8	2.0	1.9	2.5	2.7
27	Calculus.....	.9	.5	.6	.5	.7	.9	1.5	1.8
28	Cystitis.....	1.8	1.1	1.1	.9	.9	.7	.6	.6
29	Bladder disease, etc.....	.9	.7	.2	.4	.4	.3	.3	.3
30	Bowel diseases.....	77.9	96.2	91.9	87.4	87.8	93.2	74.5	109.4
31	{ Bowels, Inflammation of.....	14.9	14.9	17.7	16.9	17.5	17.5	15.3	17.5
32	{ Diarrhea.....	9.2	14.2	10.4	13.8	19.0	20.0	17.2	29.0
33	Cholera infantum.....	28.1	42.6	39.7	34.3	31.7	34.7	20.7	20.5
34	Dysentery.....	3.3	4.4	4.5	4.3	7.7	9.2	11.7	25.8
35	Peritonitis.....	4.6	5.5	4.6	4.5	1.9	1.1	.7	.6
36	Bowel disease, etc.....	17.8	14.7	15.0	13.5	10.0	10.8	8.8	16.1

NOTE.—The line numbers in this table correspond to the same diseases in Tables 66-68. A few diseases, *e. g.*, German measles, which was not separately compiled until 1892, do not appear, being included under the titles beneath which they were formerly compiled.

## DEATH RATES FROM SPECIFIED CAUSES, 1870-96

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*the year 1896, compared with 1894-95, and with five successive quinquennial periods, proportional deaths per 1,000 deaths from specified diseases.*

Rates per 1,000 deaths from specified diseases.								Line number.
Year, 1896.	Year, 1895.	Year, 1894.	Five years, 1890 to 1894.	Five years, 1885 to 1889.	Five years, 1880 to 1884.	Five years, 1875 to 1879.	Five years, 1870 to 1874.	
1,254.7	1,232.3	1,234.7	1,229.1	1,201.8	1,219.5	1,276.1	1,221.2	1
1,000.0	1,000.0	1,000.0	1,000.0	1,000.0	1,000.0	1,000.0	1,000.0	2
243.0	248.6	258.4	282.4	310.4	342.6	383.8	363.8	3
119.5	129.7	130.0	121.4	133.5	137.5	159.0	142.2	4
10.9	13.8	13.4	11.4	8.7	11.1	12.5	14.0	5
4.3	6.8	5.4	5.2	2.3	2.4	.7	.4	6
1.8	1.6	2.4	2.0	2.8	3.5	5.6	7.2	7
.9	1.1	1.4	1.2	1.6	2.3	3.1	4.1	8
2.6	3.2	3.4	2.0	1.4	2.2	1.9	1.6	9
1.2	1.0	.8	1.0	.6	.8	1.1	.7	10
12.0	7.4	8.0	13.9	20.1	20.3	17.6	14.5	11
2.9	2.5	2.6	2.9	5.0	3.7	2.7	.8	12
37.0	32.2	37.8	56.1	58.3	99.8	69.2	17.6	13
3.5	3.7	2.5	3.1	4.2	5.8	8.5	11.5	14
2.6	1.7	2.0	2.0	2.3	2.8	3.1	4.3	15
6.0	6.3	9.6	18.0	18.0	33.0	41.0	63.1	16
30.8	35.7	31.6	34.0	36.5	39.6	40.1	57.2	17
.8	1.2	1.3	1.3	2.0	1.8	.7	.2	18
.1	.3	.1	.3	.2	.8	1.5	1.5	19
6.9	2.5	5.1	8.4	12.1	13.1	9.8	12.0	21
.7	3.8	5.0	1.1	.2	2.7	4.2	10.0	23
.1	.1	.2	.2	.1	.1	.2	.1	24
9.0	7.6	9.3	8.1	9.3	10.5	13.9	14.9	25
4.7	2.8	2.5	2.3	2.5	2.3	3.7	3.4	26
1.2	.6	.8	.6	.9	1.1	2.3	2.3	27
2.3	1.3	1.5	1.1	1.1	.8	.9	.7	28
1.2	.9	.3	.5	.5	.4	.4	.4	29
102.9	118.7	121.4	107.4	108.0	114.4	109.1	138.8	30
19.6	18.4	23.3	20.8	21.6	21.5	22.4	22.2	31
12.1	17.5	13.8	17.0	23.4	24.5	25.2	36.8	32
37.2	52.6	52.5	42.2	39.0	42.6	30.3	26.0	33
4.3	5.4	5.9	5.3	9.4	11.2	17.2	32.7	34
6.1	6.8	6.0	5.6	2.3	1.3	1.1	.8	35
23.6	18.1	19.9	16.6	12.3	13.2	12.9	20.4	36

\* Includes German measles.



Table 66.—CONCLUDED.—*Important diseases and groups of diseases*

Line number.	Causes of deaths, 1870-96.	Rates per 100,000 population.							
		Year, 1896.	Year, 1895.	Year, 1894.	Five years, 1890 to 1894.	Five years, 1885 to 1889.	Five years, 1880 to 1884.	Five years, 1875 to 1879.	Five years, 1870 to 1874.
37	Brain diseases.....	81.0	83.7	81.6	75.9	74.0	71.3	63.2	80.6
38	Apoplexy.....	14.6	14.0	12.6	10.2	7.4	6.2	6.5	5.4
40	Brain, Inflammation of.....	12.9	12.2	13.5	14.2	17.2	17.6	16.8	21.8
41	Epilepsy.....	2.5	2.5	2.2	2.5	2.6	2.8	2.3	2.1
42	Meningitis.....	8.3	7.8	8.1	8.2	9.1	13.6	8.6	22.1
43	Paralysis.....	32.2	34.8	31.5	28.6	24.8	18.8	15.5	12.1
44	Brain disease, etc.*.....	10.6	12.3	13.7	12.3	13.0	12.4	13.5	17.1
45	Cancer.....	33.7	33.2	30.2	27.2	22.5	18.8	16.8	11.4
46	Tumor.....	7.0	7.5	6.6	6.7	5.1	4.3	3.5	2.7
47	Childbirth.....	10.5	11.4	9.5	10.4	12.1	12.6	12.1	16.2
48	Convulsions.....	21.9	20.1	18.4	21.9	23.6	20.9	18.8	22.2
49	Diabetes.....	5.3	4.4	4.7	3.9	3.4	2.9	2.3	2.5
50	Dropsy.....	19.1	20.6	17.8	19.0	18.3	17.1	16.6	19.9
51	Fever (unspecified).....	3.8	4.7	3.3	4.9	6.2	8.8	9.0	15.8
52	Fever, Malarial.....	4.4	5.6	4.1	5.9	8.9	10.5	8.3	13.8
53	Heart diseases.....	64.4	64.0	62.1	61.6	48.0	38.4	29.7	28.2
54	Pericarditis.....	3.3	3.9	3.9	3.7	3.9	4.3	4.5	4.6
55	Heart disease, etc.†.....	61.1	60.0	58.1	57.9	44.0	34.1	25.2	23.6
57	Influenza.....	10.7	18.0	17.9	37.1	1.9	.1	.2	.3
58	Kidney diseases.....	26.9	25.4	24.5	20.4	16.7	12.3	6.1	4.7
59	Kidneys, Inflammation of.....	20.6	18.8	18.4	14.9	11.9	8.5	2.7	2.0
60	Kidney disease, etc.....	6.3	6.5	6.0	5.4	4.9	3.8	3.4	2.7
61	Liver disease, etc.....	8.8	9.6	7.2	7.0	7.6	8.1	8.4	9.5
62	Lung diseases.....	81.6	87.2	75.4	81.3	75.1	70.7	65.9	72.4
63	Asthma.....	3.2	4.2	3.3	3.4	3.1	2.8	1.9	1.7
64	Bronchitis.....	7.8	8.3	7.8	8.0	6.6	4.5	3.0	1.8
65	Pleurisy.....	1.6	1.4	1.3	1.3	1.3	1.1	1.1	1.2
66	Pneumonia.....	59.9	63.8	53.5	58.6	51.4	50.0	46.4	52.7
68	Lung disease, etc.‡.....	9.1	9.5	9.5	10.0	12.6	12.3	13.6	14.9
69	Rheumatism.....	7.2	6.3	6.7	6.5	7.3	6.4	4.9	5.4
70	Septicemia.....	8.6	8.8	6.9	7.6	7.3	4.1	.4	.1
71	Spine disease, etc.....	5.2	5.9	4.6	4.8	5.6	6.1	5.3	7.4
72	Stomach diseases.....	12.9	13.6	11.1	9.4	7.4	6.5	5.5	5.5
73	Stomach, Inflammation of.....	4.2	4.2	3.5	2.5	2.0	2.2	1.8	2.1
74	Stomach disease, etc.....	8.7	9.4	7.6	6.9	5.4	4.4	3.8	3.3
75	Syphilis.....	.9	.5	1.2	.6	.5	.5	.4	.5
76	Unclassified.....	77.7	80.0	73.9	82.6	119.2	87.5	65.8	70.6

\* Includes congestion of brain.

† Includes "heart failure."

‡ Includes congestion of lungs.

## DEATH RATES FROM SPECIFIED CAUSES, 1870-96

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registered in Michigan during the year 1896, compared with 1870-95.

Rates per 1,000 deaths from specified diseases.								Line number.
Year, 1896.	Year, 1895.	Year, 1894.	Five years, 1890 to 1894.	Five years, 1885 to 1889.	Five years, 1880 to 1884.	Five years, 1875 to 1879.	Five years, 1870 to 1874.	
107.1	103.3	107.7	93.3	91.1	87.5	92.7	101.2	37
19.2	17.3	16.7	12.6	9.1	7.6	9.6	6.8	38
17.0	15.1	17.8	17.4	21.1	21.7	24.6	27.7	40
3.4	3.1	2.8	3.1	3.2	3.4	3.4	2.7	41
11.0	9.6	10.7	10.0	11.2	16.7	12.6	28.0	42
42.5	42.9	41.6	35.1	30.5	23.1	22.8	15.3	43
14.0	15.2	18.1	15.1	16.0	15.2	19.7	21.7	44
44.5	41.0	39.9	33.4	27.7	23.1	24.7	14.5	45
9.2	9.3	8.8	8.2	6.2	5.3	5.1	3.4	46
13.9	14.0	12.5	12.8	14.9	15.5	17.8	20.5	47
28.9	24.8	24.3	26.9	29.0	25.6	27.5	28.2	48
7.0	5.4	6.2	4.8	4.2	3.5	3.4	3.1	49
25.2	25.5	23.6	23.3	22.5	21.0	24.4	25.2	50
5.0	5.8	4.4	6.1	7.6	10.8	13.2	20.0	51
5.8	6.9	5.4	7.3	11.0	12.9	12.1	17.5	52
85.1	79.0	81.9	75.7	59.0	47.1	43.5	35.8	53
4.4	4.9	5.2	4.6	4.8	5.3	6.6	5.8	54
80.7	74.1	76.8	71.2	54.2	41.8	36.9	29.9	55
14.2	22.2	23.7	45.6	2.3	.1	.3	.4	57
35.6	31.3	32.3	25.1	20.6	15.1	9.0	5.9	58
27.3	23.2	24.4	18.4	14.6	10.4	3.9	2.5	59
8.3	8.1	8.0	6.7	6.0	4.7	5.0	3.4	60
11.6	11.8	9.5	8.6	9.4	9.9	12.3	12.1	61
107.8	107.6	99.6	99.9	92.4	86.8	96.6	91.8	62
4.2	5.1	4.4	4.2	3.9	3.4	2.8	2.1	63
10.3	10.3	10.3	9.8	8.1	5.6	4.3	2.3	64
2.1	1.8	1.7	1.6	1.6	1.4	1.7	1.5	65
79.1	78.7	70.7	72.1	63.3	61.3	68.0	66.9	66
12.0	11.7	12.5	12.2	15.5	15.1	19.8	18.9	68
9.5	7.8	8.9	7.9	9.0	7.9	7.2	6.8	69
11.3	10.9	9.1	9.4	9.0	5.0	.6	.1	70
6.9	7.3	6.1	5.9	6.9	7.5	7.8	9.4	71
17.1	16.8	14.7	11.6	9.1	7.9	8.1	6.9	72
5.5	5.2	4.7	3.1	2.5	2.7	2.6	2.7	73
11.5	11.6	10.0	8.4	6.6	5.3	5.5	4.2	74
1.2	.6	1.5	.8	.6	.6	.6	.6	75
102.6	98.7	97.6	101.5	146.7	107.4	96.5	89.5	76

**Table 67.**—Death rates per 100,000 population, from certain important **dangerous communicable diseases** and from cancer, pneumonia and influenza for each of the years 1869-96. (See Diagram II, opposite.)

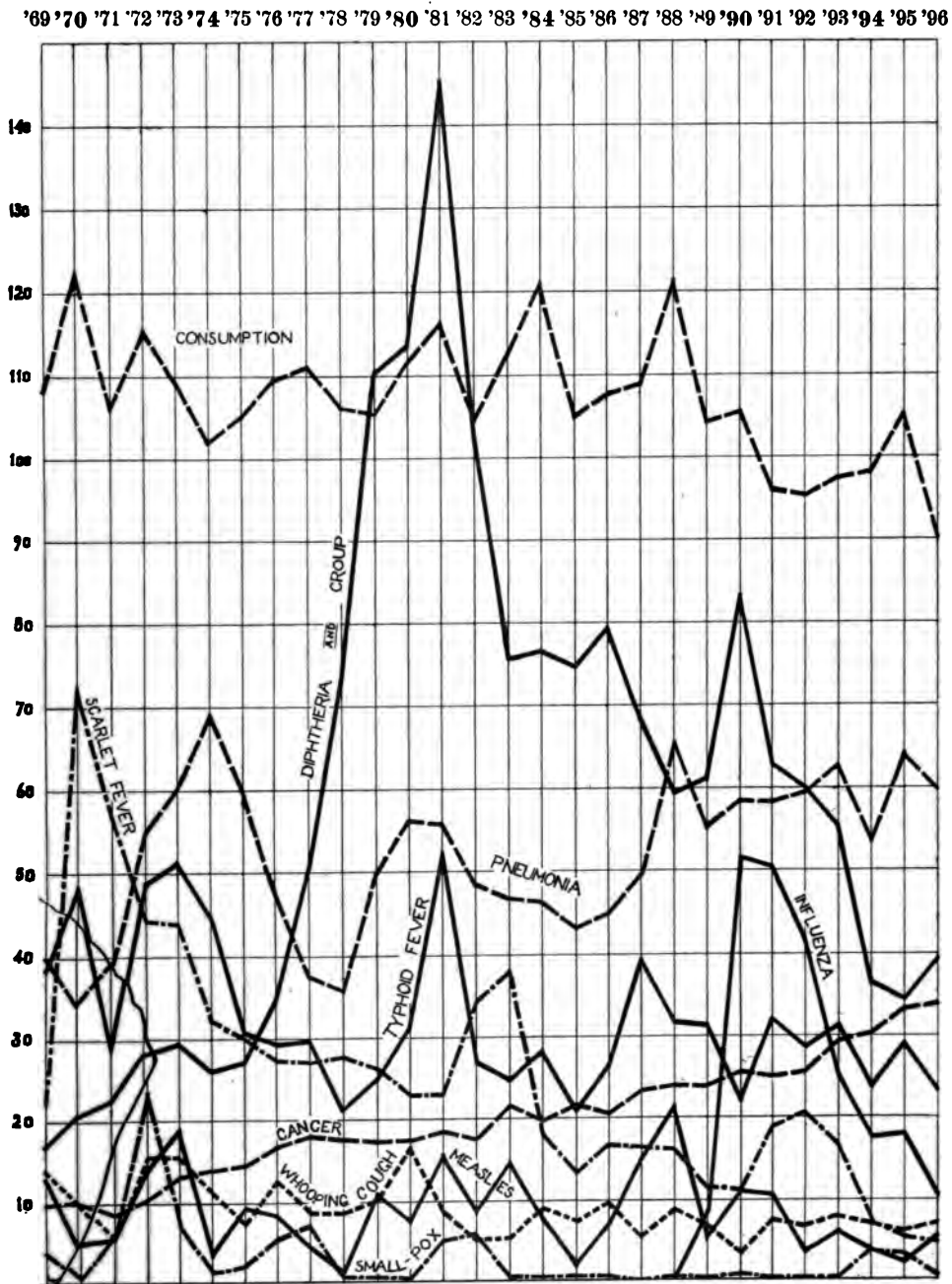
Years.	Dangerous communicable diseases.	Consumption.	Diphtheria and croup.	Scarlet fever.	Typhoid fever.	Measles	Small-pox.	Whooping cough.	Cancer.	Pneumonia.	Influenza.
1869....	231.9	108.1	17.0	22.1	38.3	12.9	3.7	13.9	9.9	39.9	-----
1870*	300.7	122.5	20.9	72.0	48.5	4.7	0.8	10.1	10.1	34.2	-----
1871....	250.7	106.0	22.5	56.6	29.0	5.5	6.0	5.5	8.5	39.2	.2
1872....	318.9	115.1	28.2	44.3	48.7	14.1	23.7	15.1	10.4	55.0	.5
1873....	305.1	109.6	29.6	43.9	51.3	18.6	7.0	15.6	13.0	60.1	.9
1874....	243.3	102.0	26.2	32.2	44.8	3.4	1.3	11.2	13.8	68.6	.1
1875....	232.0	104.9	26.9	30.0	30.7	9.5	1.8	7.2	14.4	60.0	.4
1876....	245.1	109.2	34.7	27.4	29.3	8.1	5.2	12.4	16.5	47.7	-----
1877....	255.3	110.9	50.6	26.9	29.7	4.1	6.8	8.7	17.7	37.2	.1
1878....	253.4	106.1	72.8	27.7	21.3	1.0	0.4	8.5	17.4	35.7	.2
1879....	305.2	105.6	110.5	26.3	24.9	10.5	0.4	10.2	17.1	49.9	.3
1880*	321.5	111.7	113.9	22.7	31.3	7.6	0.2	16.1	17.4	56.2	.2
1881....	388.2	116.1	145.2	32.8	52.5	15.2	4.9	8.4	18.4	55.9	.1
1882....	305.5	104.4	102.1	34.3	26.8	8.7	5.8	5.0	17.4	48.3	.1
1883....	286.4	112.3	75.7	37.9	24.7	14.5	0.3	5.2	21.6	46.6	.1
1884....	277.7	120.8	76.4	17.9	28.2	7.9	0.2	8.8	19.9	46.2	-----
1885....	237.5	105.3	74.6	13.1	20.7	2.0	0.2	7.4	21.6	43.1	.1
1886....	260.4	107.3	79.4	16.7	26.1	6.8	0.3	9.7	20.5	44.8	.2
1887....	268.3	108.7	68.2	16.3	39.3	14.6	-----	5.6	23.2	49.6	.1
1888....	273.8	121.0	19.8	16.1	31.9	20.6	0.2	8.7	24.0	65.6	.1
1889....	232.5	104.3	61.1	11.7	31.1	5.1	0.1	6.8	24.0	55.3	8.6
1890*	250.9	105.4	83.0	10.6	22.2	10.9	0.3	3.6	25.5	58.5	51.8
1891....	242.1	96.3	63.0	18.7	32.0	10.5	0.1	7.4	25.0	58.3	50.5
1892....	230.1	95.2	60.0	20.2	28.6	3.3	0.1	6.7	25.5	59.4	41.8
1893....	229.2	97.7	55.2	16.3	31.3	5.8	0.1	7.8	29.2	62.8	25.2
1894*	195.7	98.4	36.7	7.3	23.9	3.8	3.8	7.0	30.2	53.5	17.9
1895....	201.5	105.2	34.2	5.1	29.0	2.0	3.1	6.1	33.2	63.8	18.0
1896....	183.9	90.4	39.3	4.6	23.3	5.2	.6	6.8	33.7	59.9	10.7

\* Census years.

Certain diseases are of so much importance that five-year averages do not seem to be sufficient for their satisfactory study. We wish to know not only their general tendency, but also just how each one has fluctuated from year to year. For this reason, Table 67 gives the annual rates for certain important diseases, and the figures therein contained are also represented graphically in Diagram II, facing it.

Tables 63 to 67, inclusive, form the chief basis for the remarks relating to diseases returned as causes of death in Michigan during the year 1896. This discussion begins on page 158, reference being made to the data contained in these tables by means of the reference line numbers. Before beginning the subject of individual *causes of death*, certain tables showing the geographical distribution of diseases *during the year 1896* will be presented.

DIAGRAM II.—COMPARATIVE MORTALITY FROM CERTAIN IMPORTANT DISEASES IN MICHIGAN FOR TWENTY-EIGHT YEARS, 1869-96.



NOTE. See table 67 on opposite page. Scale represents death rates per 100,000 population. Census years in boldface type.



# DEATHS OF THE AGED AND OF CHILDREN BY DIVISIONS 155

## GEOGRAPHICAL DISTRIBUTION OF DISEASES IN MICHIGAN, 1896.

The following list shows the counties contained in each geographical division of the State, as subdivided for the purpose of more conveniently studying the distribution of causes of deaths. This arrangement has been in use in these Reports from an early date and much valuable information has been accumulated in connection with it in regard to the distribution of diseases. Maps showing the distribution of the mortality from typhoid fever, consumption and diphtheria in Michigan, were given in recent Reports of this series.

- I. UPPER PENINSULAR.—Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette, Menominee, Ontonagon, Schoolcraft.
- II. NORTHWESTERN.—Benzie, Grand Traverse, Leelanau, Manistee, Manitou, Wexford.
- III. NORTHERN.—Antrim, Charlevoix, Cheboygan, Crawford, Emmet, Kalkaska, Otsego.
- IV. NORTHEASTERN.—Alcona, Alpena, Iosco, Montmorency, Ogemaw, Oscoda, Presque Isle.
- V. WESTERN.—Kent, Lake, Mason, Muskegon, Nawaygo, Oceana, Ottawa.
- VI. NORTH CENTRAL.—Clare, Gladwin, Isabella, Mecosta, Midland, Missaukee, Osceola, Roscommon.
- VII. EASTERN.—Arenac, Bay, Huron, Lapeer, Saginaw, Sanilac, St. Clair, Tuscola.
- VIII. CENTRAL.—Barry, Clinton, Eaton, Genesee, Gratiot, Ingham, Ionia, Livingston, Montcalm, Shiawassee.
- IX. SOUTHWESTERN.—Allegan, Berrien, Cass, Van Buren.
- X. SOUTH CENTRAL.—Branch, Calhoun, Hillsdale, Jackson, Kalamazoo, Lenawee, St. Joseph, Washtenaw.
- XI. SOUTHEASTERN.—Macomb, Monroe, Oakland, Wayne.

**Table 68.**—Comparison, by geographical divisions, of the number and percentage of deaths returned in 1896 from "old age," and of persons aged over 70 years and under 5 years. (Stillbirths included.)

State and geographical divisions.	Deaths at all ages, 1896.	"Old age."		Aged 70 and over.		Aged under 5.	
		Number of deaths, 1896.	Per cent of deaths at all ages	Number of deaths, 1896.	Per cent of deaths at all ages.	Number of deaths, 1896.	Per cent of deaths at all ages.
State.....	21,983	810	3.7	3,717	16.9	7,289	33.2
Upper Peninsular.....	2,537	40	1.6	127	5.0	1,315	51.8
Northwestern.....	736	12	1.6	68	9.2	319	43.3
Northern.....	492	13	2.6	83	16.9	191	38.8
Northeastern.....	389	18	4.6	31	8.0	180	46.3
Western.....	2,302	84	3.6	374	16.2	747	32.5
North-Central.....	656	15	2.3	76	11.6	232	35.4
Eastern.....	2,963	121	4.1	432	14.6	960	33.1
Central.....	2,670	139	5.2	671	25.1	560	21.0
Southwestern.....	1,257	59	4.7	301	23.9	302	24.0
South-Central.....	2,947	160	5.4	873	29.6	544	18.5
Southeastern.....	5,034	149	3.0	681	13.5	1,919	38.1

**Table 69.**—*Comparison, by geographical divisions, of the number and percentage of deaths in 1896 from certain specified causes: Consumption, pneumonia, influenza, diphtheria, croup, scarlet fever, typhoid fever, diarrheal diseases.*

State and geographical divisions.	Deaths from all causes, 1896.	Consumption.		Pneumonia.		Influenza.		Diphtheria.		Croup.*		Scarlet fever.		Typhoid fever.		Diarrheal diseases.†	
		Num-ber of deaths, 1896.	Per-cent of deaths, from all causes.	Num-ber of deaths, 1896.	Per-cent of deaths, from all causes.	Num-ber of deaths, 1896.	Per-cent of deaths, from all causes.	Num-ber of deaths, 1896.	Per-cent of deaths, from all causes.	Num-ber of deaths, 1896.	Per-cent of deaths, from all causes.	Num-ber of deaths, 1896.	Per-cent of deaths, from all causes.	Num-ber of deaths, 1896.	Per-cent of deaths, from all causes.	Num-ber of deaths, 1896.	Per-cent of deaths, from all causes.
State.....	21,963	2,093	9.5	1,386	6.3	248	1.1	649	3.0	262	1.2	106	.5	539	2.5	989	4.3
Upper Peninsula.....	2,537	205	8.1	190	7.5	15	.6	105	4.1	30	1.2	13	.5	65	2.6	206	8.1
Northwestern.....	736	72	9.8	60	8.2	6	.8	17	2.3	17	2.3	1	.1	28	3.8	35	4.8
Northern.....	492	37	7.5	36	7.3	6	1.2	7	1.4	5	1.0			12	2.4	15	3.0
Northeastern.....	889	23	5.9	14	3.6	1	.3	4	1.0	5	1.3	1	.3	4	1.0	15	3.9
Western.....	2,302	250	10.9	138	6.0	13	.6	54	2.3	25	1.1	18	.8	47	2.0	72	3.1
North-Central.....	656	73	11.1	34	5.2	8	1.2	20	3.0	5	.8	3	.5	14	2.1	45	6.9
Eastern.....	2,963	282	9.5	188	6.3	29	1.0	92	3.1	32	1.1	30	1.0	86	2.9	120	4.0
Central.....	2,670	256	9.6	187	7.0	56	2.1	27	1.0	12	.4	7	.3	87	3.3	108	4.0
Southwestern.....	1,257	148	11.8	79	6.3	23	1.8	27	2.1	13	1.0			29	2.3	44	3.5
South-Central.....	2,947	335	11.4	163	5.5	35	1.2	61	2.1	9	.3	4	.1	63	2.1	94	3.2
Southeastern.....	5,034	412	8.2	297	5.9	57	1.1	235	4.7	109	2.2	29	.6	104	2.1	185	3.7

\* Includes 51 cases of membranous croup, specified as such.

† Includes diarrhea, dysentery, cholera infantum.

# DEATHS AND DEATH RATES BY GEOGRAPHICAL DIVISIONS 157

**Table 70.**—Deaths and death rates per 100,000 population, by geographical divisions, for certain important diseases and groups of diseases in Michigan during the year 1896.

State and geographical divisions.	Estimated population, 1896.	All causes.		Dangerous communicable diseases.		Consumption.		Diphtheria and croup.		Scarlet fever.		Typhoid fever.	
		Deaths, 1896.	Rate per 100,000.	Deaths, 1896.	Rate per 100,000.	Deaths, 1896.	Rate per 100,000.	Deaths, 1896.	Rate per 100,000.	Deaths, 1896.	Rate per 100,000.	Deaths, 1896.	Rate per 100,000.
State.....	2,315,517	21,983	949.4	4,258	183.9	2,093	90.4	911	39.3	106	4.6	539	23.3
Upper Peninsular.....	219,556	2,537	1155.5	511	232.7	205	93.4	135	61.5	13	5.9	65	29.6
Northwestern.....	81,122	736	907.3	160	197.2	72	88.8	34	41.9	1	1.2	28	34.5
Northern.....	66,058	492	744.8	78	118.1	37	56.0	12	18.2			12	18.2
Northeastern.....	51,964	389	748.6	51	98.1	23	44.3	9	17.3	1	1.9	4	7.7
Western.....	285,402	2,302	867.4	446	168.0	250	94.2	79	29.8	18	6.8	47	17.7
North-central.....	98,717	656	664.5	158	160.1	73	73.9	25	25.3	3	3.0	14	14.2
Eastern.....	341,195	2,963	868.4	594	174.1	282	82.7	124	36.3	30	8.8	86	25.2
Central.....	318,102	2,670	839.4	446	140.2	256	80.5	39	12.3	7	2.2	87	27.3
Southwestern.....	139,721	1,257	899.7	248	177.5	148	105.9	40	28.6			29	20.8
South-central.....	313,885	2,947	938.9	529	168.5	335	106.7	70	22.3	4	1.3	63	20.1
Southeastern.....	419,795	5,034	1199.2	1,037	247.0	412	98.1	344	81.9	29	6.9	104	24.8

State and geographical divisions.	Meas-les.*		Whoop-ing cough.		Bowel diseases.		Brain diseases.		Cancer and tumor.		Heart dis-eases.*		Lung diseases.+		Violence.	
	Deaths, 1896.	Rate per 100,000.	Deaths, 1896.	Rate per 100,000.	Deaths, 1896.	Rate per 100,000.	Deaths, 1896.	Rate per 100,000.	Deaths, 1896.	Rate per 100,000.	Deaths, 1896.	Rate per 100,000.	Deaths, 1896.	Rate per 100,000.	Deaths, 1896.	Rate per 100,000.
State.....	121	5.2	158	6.8	1,803	77.9	1,876	81.0	941	40.6	1,102	47.6	1,889	81.6	1,289	55.7
Upper Peninsular.....	31	14.1	20	9.1	311	141.6	121	55.1	62	28.2	78	35.5	292	133.0	207	94.3
Northwestern.....	13	16.0	4	4.9	61	75.2	46	56.7	22	27.1	33	40.7	67	82.6	34	41.9
Northern.....			11	16.7	27	40.9	41	62.1	14	21.2	25	37.8	42	63.6	37	56.0
Northeastern.....	4	7.7	5	9.6	34	65.4	22	42.3	8	15.4	10	19.2	18	34.6	33	63.5
Western.....	5	1.9	16	6.0	171	64.4	226	85.2	110	41.4	141	53.1	207	78.0	122	46.0
North-central.....	11	11.1	15	15.2	65	65.8	42	42.5	25	25.3	23	23.3	42	42.5	33	33.4
Eastern.....	27	7.9	18	5.3	241	70.6	212	62.1	144	42.2	143	41.6	248	72.7	179	52.5
Central.....	7	2.2	19	6.0	210	66.0	280	88.0	129	40.6	186	58.5	218	78.0	122	38.4
Southwestern.....	2	1.4	10	7.2	77	55.1	127	90.9	61	43.7	73	52.2	103	73.7	75	53.7
South-central.....	4	1.3	13	4.1	196	62.4	390	124.2	162	51.6	203	64.7	200	63.7	132	42.1
Southeastern.....	17	4.0	27	6.4	410	97.7	369	87.9	204	48.6	188	44.8	422	100.5	315	75.0

\* Not including "heart failure."

+ Not including consumption.



### DISCUSSION OF DISEASES RETURNED AS CAUSES OF DEATHS IN MICHIGAN, 1896.

The following remarks on this subject are based chiefly on Tables 63 to 70, to which reference may be conveniently made by means of the line numbers prefixed to each cause of death in the following text. Table 63 gives the distribution of deaths from each cause by sex, months of the year, and periods of age of the decedents; Table 64 presents the same list of causes of deaths by counties; Table 65 shows the number of deaths registered from each disease for previous years of registration, while Table 66 reduces the evidence presented in Table 65 to a more compact and comparable form by means of death rates and five-year averages. Table 67 traces the fluctuations of individual diseases from year to year (see Diagram II), and Tables 68-70 illustrate the geographical distribution of fatal diseases through the State.

The classification of Tables 63-66, is the provisional one employed in these Reports since 1892. It was designed merely for use until a satisfactory nomenclature shall be authoritatively introduced and adopted by American registrars, and as this very desirable end has been attained by the indorsement of the Bertillon classification of causes of death by the American Public Health Association, this provisional system will now be discarded for the latter. It seemed advisable to begin the use of the Bertillon system with the first returns under the new registration law, leaving the provisional classification to be used in terminating the reports under the old law. The two series of reports will not be directly comparable, since registration is much more accurate under the new law.

Without laying special stress on the particular from which a classification of causes of death shall assume, the general adoption of a uniform arrangement, even were it merely alphabetical, will mark the beginning of that deeper identity which is absolutely essential to the comparability of international statistics. Not only must the several titles in a nosological list correspond in their outward form, but the diseases compiled under each must be the same. Dissimilarities of inclusion of terms are the most objectionable feature of the present lack of harmony, and the consciousness that the user of mortality statistics can know exactly what causes of death are compiled under a given term will be one of the most satisfactory achievements of the movement for uniformity. Of course, it is not intended to assume that uniformity of nomenclature is the only point on which agreement is desirable. But this very difficult step having been achieved, an agreement in regard to the statement of age periods, etc., ought to readily follow.

#### DEATHS FROM ALL CAUSES AND FROM SPECIFIED DISEASES, 1896.

(1) TOTAL DEATHS.....	21,983	The gross number of deaths recorded in Michigan for the year 1896 amounted to 21,983, of which number 17,521 were ascribed to various diseases. This latter number is accordingly taken as the basis of reference to which percentage comparisons of the deaths from any particular cause should be referred, as stated in Table 66. Deaths from specified diseases are divided for present purposes of study into two groups: (1) Dangerous communicable diseases, and (2) Diseases not so classed at present. The former group is of the greater practical sanitary interest, and will first be given attention.
(2) SPECIFIED DISEASES.....	17,521	
Violence.....	1,289	
Stillbirths.....	1,254	
Premature births.....	99	
Unknown causes of death.....	1,820	

## DANGEROUS COMMUNICABLE DISEASES.

(3) <i>Dangerous Communicable Diseases.</i>	4,258	The total number of deaths from dangerous communicable diseases was somewhat less in 1896 than in the preceding year, the ratio to deaths from all causes having declined from 24.9 to 24.3 per cent. The death rate for the year, 183.9 per 100,000 living population, was lower than that for any previous year of registration, as shown by Table 67. While all of the diseases belonging to this group showed low rates of mortality, the determining reason for the decline was the unusually low death rate from consumption. The variations in the individual members of this group may be examined in Diagram II, facing page 154, and are referred to in the following descriptive text under the head of each disease. The diseases in this group have been under sanitary supervision in Michigan for different periods of time, as indicated in Table 65. The
(4) <i>Consumption</i> .....	2,093	
(5) <i>Other tubercular diseases</i> .....	191	
(6) <i>Marasmus</i> .....	76	
(7) <i>Tubercular meningitis</i> .....	32	
(8) <i>Scrofula</i> .....	16	
(9) <i>Tabes mesenterica</i> .....	46	
(10) <i>Other forms of tuberculosis</i> .....	21	
(11) <i>Croup</i> .....	211	
(12) <i>Membranous croup</i> .....	51	
(13) <i>Diphtheria</i> .....	649	
(14) <i>Erysipelas</i> .....	62	
(15) <i>Puerperal fever</i> .....	46	
(16) <i>Scarlet fever</i> .....	106	
(17) <i>Typhoid fever</i> .....	539	
(18) <i>Typho-malarial fever</i> .....	14	
(19) <i>Typhus fever</i> .....	2	
(20) <i>Glanders</i> .....	—	
(21) <i>Measles</i> .....	121	
(22) <i>German measles</i> .....	1	
(23) <i>Smallpox</i> .....	13	
(24) <i>Chickenpox</i> .....	1	
(25) <i>Whooping cough</i> .....	158	

State Board of Health was established in 1873, and began its first warfare upon smallpox, cholera,\* scarlet fever, typhoid fever, measles and whooping cough in the same year. Diphtheria was just beginning its devastating course in the State, and was not at the time recognized as of much importance. Physicians made it a point of honor to report only the distinctly marked cases, with formation of pseudo-membranes, as such, and the infectious character of the disease was then a subject of considerable doubt. Practical experience of the disease, which rapidly increased in prevalence during the immediately following years, soon caused it to be included in the list of diseases dangerous to the public health (1875), and the treatment of cases of "membraneous croup" as identical for all practical sanitary purposes with diphtheria is a recent step (1889), due chiefly to the teachings of bacteriology. Consumption has been added to the list of restricted diseases still more recently (1893), and with it is included the miscellaneous group of affections compiled, with more or less certainty, as caused by the tubercle bacillus. .

## DEATHS IN MICHIGAN FROM TUBERCULOSIS.

(4) <i>Consumption</i> .....	2,093	Consumption caused 303 fewer deaths in Michigan during the year 1896 than during the previous year, according to the reports made to this Department. The decline in the total attributed to tubercular diseases was somewhat greater, there being 366 fewer deaths from this class of causes.
(5) <i>Other tubercular diseases</i> .....	191	
(6) <i>Marasmus (?)</i> .....	76	
(7) <i>Tubercular meningitis</i> .....	32	
(8) <i>Scrofula</i> .....	16	
(9) <i>Tabes mesenterica (?)</i> .....	46	
(10) <i>Other forms of tuberculosis</i> .....	21	
<b>Total deaths from tuberculosis.</b>	<b>2,184</b>	

As stated in the last report, "the course of consumption in Michigan has been very regular, as seen in Table 67 and Diagram II, representing the death rates given therein. The greatest amount of fluctuation in any one direction has been the diminished mortality reported for the last few years, 1890-94, but this decrease, it is believed, is rather apparent than real, being due to the prevalence of epidemic influenza and the great tendency to report deaths of consumptives, whose deaths

may, indeed, have been hastened by the epidemic, to the immediate cause rather than to the disease that had weakened the vital resistance and thus prepared the way for the fatal result." While this explanation is undoubtedly true for a portion of the reduction in mortality from consumption, and especially during the first years of the present decade, influenza has now ceased to be as important a return of cause of death as at that time, and an additional cause must be sought to explain the very low mortality from consumption at the present time. Whether consumption has benefited by the unusually favorable climatic conditions, evidenced by extremely low death rates recorded all over the country from all classes of disease, or whether the special restrictive work of the State Board of Health in this direction has already borne good fruit in the shape of the marked diminution of mortality, can be better determined by a little longer observation.

Besides the deaths returned from consumption, which term is understood to apply exclusively to pulmonary phthisis, many deaths occur from other forms of tuberculosis, or, rather, tuberculosis of other organs of the body. The deaths returned from consumption of the lungs would probably require to be increased at least ten per cent to represent the total deaths due to the tubercle bacillus. Indeed, this is a very conservative estimate, since it is probable that many cases of intestinal tuberculosis in infants escape recognition. On the other hand it is not certain that the deaths compiled from "marasmus" and "tabes mesenterica" are really tubercular in character. Thus, nearly all the returns of marasmus come from a certain hospital in Detroit, and imply, in all probability, merely a wasting disease of any nature, perhaps consequent on cholera infantum or some other intestinal disorder. Taken altogether, this group may stand for some important causes of death due to the bacillus tuberculosis, that we do not have accurately returned at present. Many deaths from "unknown" causes, "weakness," "malnutrition," etc., should properly be reported under this head.

#### DIPHTHERIA AND CROUP.

(11) Croup .....	211	For practical sanitary purposes diphtheria and croup are identical, and are so treated by sanitary (and many registration) authorities at the present day. In this Report the deaths from diphtheria, membranous croup and croup (unspecified) are distinguished in the tables as in previous years, but the aggregate number of deaths from the three classes of returns can be readily employed instead of the deaths reported directly as diphtheria, if it seem preferable to do so. Some increase is shown for the year in deaths from diphtheria and croup as compared with the preceding one, diphtheria, croup and membranous croup sharing alike in the advance.
(12) Membranous croup .....	51	
(13) Diphtheria .....	649	
<b>Total deaths from diphtheria and croup .....</b>	<b>911</b>	

#### ERYSIPELAS AND PUERPERAL FEVER.

(14) Erysipelas .....	62	These diseases showed comparatively no change from preceding years. It is probable that a certain proportion of the deaths compiled under childbirth (47) are really caused by septic infection during the puerperal period, and that septicemia (70) should also contribute a certain number to this quota.
(15) Puerperal fever .....	46	

#### SCARLET FEVER.

(16) Scarlet fever .....	106	Ten fewer deaths occurred from this disease in Michigan in 1896 than in 1895, which year had previously held the record for minimum mortality. Scarlet fever was, therefore, less fatal, both as regards the total number of deaths and the death rate per 100,000 population than any previous year of registration in Michigan.
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## ENTERIC FEVER.

- (17) Typhoid fever..... 539 A slight decrease in the mortality from  
 (18) Typho-malarial fever..... 14 typhoid fever occurred as compared with  
 (19) Typhus fever..... 2 the preceding year. The deaths from  
 "typho-malarial" and "typhus" fever should undoubtedly be considered as enteric  
 fever, at least for sanitary purposes. Of course, the latter should be specially inves-  
 tigated, and if found to be true typhus fever, the necessary precautions should be  
 taken. But in these returns, typhus is, as a rule, merely a synonym for typhoid, and  
 it is doubtful if there is any mixed infection of typhoid and malarial fevers. The  
 term is disappearing from medical usage.

## GLANDERS.

- (20) Glanders ..... Only four deaths have been recorded from  
 this disease in Michigan since the establishment of registration. None occurred in  
 the present year.

## MEASLES AND GERMAN MEASLES.

- (21) Measles ..... 121 Nearly three times as many deaths from  
 measles occurred in 1896 as in 1895. However, the year 1895 was a year of unpre-  
 cedently low mortality in Michigan from this disease, so the increase does not indi-  
 cate any unusual prevalence of measles for the year; in fact the death rate, 5.2 per  
 100,000 population, was below the average.
- (22) German measles ..... 1 German measles or r  theln is of little  
 importance as a cause of death. It is included in the list of dangerous communicable  
 diseases chiefly from the liability of scarlet fever to be mistaken for it, with which  
 disease it has a closer relationship than with measles proper. No deaths appear to  
 have been recorded from this cause prior to 1892, although it is not unlikely that an  
 occasional one has been included among deaths from measles.

## SMALLPOX.

- (23) Smallpox ..... 13 Only 13 cases of death from smallpox were  
 reported during the year, as compared with 71 deaths from this disease *reported* to  
 this Department by the county clerks for the year 1895, and compiled in the last Report.  
 It is necessary to especially emphasize the word *reported*, since it was found that the  
 returns from the county clerks under the old registration law (now happily super-  
 ceded) were unreliable in this respect, and that only 47 deaths actually occurred,  
 instead of 71 deaths as reported. The following extract from the Report of the State  
 Board of Health, 1896, page 359, shows how the duplication occurred:

During the year ending December 31, 1895, there were reported to the Secretary  
 of the State Board of Health 23 outbreaks of smallpox in 21 localities in Michigan,  
 which resulted in 187 cases with 47 deaths. For the same year (1895) there were  
 reported to the Secretary of State 71 deaths from smallpox, or 24 more than were  
 reported to this office.

Smallpox cases come under the direct supervision of the health officer, and reports  
 of cases of and deaths from this disease are made to the Secretary of this Board with  
 greater accuracy than for any other disease. This led the Secretary of the State  
 Board of Health to believe that there was some error in the number of deaths from  
 smallpox reported to the Secretary of State for 1895. An examination of the mor-  
 tality returns made to the Secretary of State, from Wayne county, for 1895, revealed  
 the fact that deaths from smallpox had been duplicated, so that in place of 64 deaths,  
 the records should have shown 18 less, or 46 deaths from smallpox. The reports to the  
 Secretary of the State Board of Health showed 40 deaths from smallpox in Wayne

county, or 6 less than the corrected returns to the Secretary of State would have shown, if corrected for these instances of duplication. Duplication occurred in some instances by the same death being reported from two separate wards of the city of Detroit; and, in other instances, the same death was reported from one or more wards and also from the isolation hospital. From the foregoing statement it is apparent that the returns to the Secretary of this Board were more accurately made than were the returns to the Secretary of State.

The errors of the old law were generally errors of omission, but the example is useful to show that the old system of enumeration was sometimes unreliable in the other direction. The detection of such mistakes, in a vast mass of returns, is practically impossible before compilation.

#### CHICKENPOX.

(24) *Chickenpox* ..... 1 This disease has not yet been officially included in the list of dangerous communicable diseases, although it is probable that this will be done. While unimportant in itself, it is exceedingly liable to be confused with smallpox, especially at the beginning of an epidemic of the latter, and hence its public health importance.

#### WHOOPIING COUGH.

(25) *Whooping cough* ..... 158 A slight decrease is noted in the prevalence of this disease as compared with the preceding year. The mortality for previous years of registration may be conveniently examined in Table 67 and Diagram II, from which it appears that the course of this disease has been very uniform in recent years, although showing some decrease since the earlier years of registration. It caused more deaths in 1896 than either measles or scarlet fever.

#### DISEASES NOT CLASSED (AT PRESENT) AS DANGEROUS COMMUNICABLE DISEASES.

Many diseases in the following list are known to be caused by one or more species of bacteria, and will undoubtedly be added in time to the list of officially defined "dangerous communicable diseases." Pneumonia, influenza, meningitis, tetanus and rabies have, indeed, been placed among dangerous communicable diseases by the State Board of Health, beginning with the year 1895, and a corresponding rearrangement would be made of the tables in this report, were it not for the fact that the present series of mortality statistics will terminate entirely at the close of another year, being displaced by the more reliable results of the new registration law. For the data collected under the new law, which will not be directly comparable with the data in the old series of reports, an entirely new classification has been adopted (the Bertillon system), hence it seemed inexpedient to revise the provisional system for the short period of its remaining use.

Under *Brain diseases*, *Bowel diseases*, and corresponding titles, all of the maladies causing diseased conditions of the brain and nervous system, alimentary canal, or other specified organs, are roughly grouped. It must be remembered that infectious diseases, although generally limited to or chiefly affecting some special organ, are elsewhere studied, and also that the titles "cancer" and "tumor" (line numbers 45 and 46) contain deaths from affections of various organs which have not been distributed in accordance with their anatomical seat. For the latter, see Table 71 which specifies the parts of the body affected by neoplastic growths.

## DISEASES OF THE BLADDER.

(26) <i>Bladder diseases</i> .....	83	Combined with diseases of the kidneys
(27) <i>Calculus</i> .....	21	(line numbers 58 to 60), the total number
(28) <i>Cystitis</i> .....	41	of deaths due to disorders of the urinary
(92) <i>Bladder disease, etc.</i> .....	21	apparatus may be ascertained. Diabetes

is separately stated (line number 49), but may be included for comparisons with statistics which embrace this title under diseases of the kidneys. Calculus and cystitis were separately stated in the old classification employed in these reports, but all other diseases of the bladder were placed under "kidney disease, etc."

## DISEASES OF THE BOWELS.

(30) <i>Bowel diseases</i> .....	1,803	This is a very important group of causes
(31) <i>Inflammation of bowels</i> .....	344	of death in the consideration of the sani-
(32) <i>Diarrhea</i> .....	212	tarian, from the fact that so large a pro-
(33) <i>Cholera infantum</i> .....	651	portion of the cases is from preventable
(34) <i>Dysentery</i> .....	76	causes, and occurs in infants and children.
(35) <i>Peritonitis</i> .....	107	Referring to Table 63, in which the
(36) <i>Bowel disease, etc.</i> .....	413	

separate ages at death under 5 years of age are stated, we observe that of the 1,803 deaths from intestinal disorders that occurred in Michigan during the year 1896, no less than 889 or 44.3 per cent, were of infants under 1 year of age; 1,167 of the deaths were of children under 5 years of age, representing a percentage of 64.7. The year was more favorable than usual in this respect.

Some of the cases of inflammation of the bowels, and many of those included in "bowel diseases, etc.," are diarrheal in character. The nature of the returns does not permit of any very exact distinctions being made between those included under different titles. Many of the deaths from diarrhea were originally specified as "summer complaint," a recognized synonym for cholera infantum, while, on the contrary, many cases of ordinary diarrhea in infants were returned as "cholera infantum." These diseases are best studied in the aggregate, and according to their age incidence. Many of the deaths reported as due to "convulsions" are really the effects of intestinal diseases, although nearly every system of statistical nosology follows the old plan of Dr. Farr, and includes such deaths under diseases of the nervous system.

## DISEASES OF THE BRAIN AND NERVOUS SYSTEM.

(37) <i>Brain diseases</i> .....	1,876	There was a slight decrease in the num-
(38) <i>Apoplexy</i> .....	337	ber of deaths reported from this group of
(39) <i>Congestion of brain</i> .....	65	causes as compared with the preceding
(40) <i>Inflammation of brain</i> .....	298	year, but each of the years exceeded any
(41) <i>Epilepsy</i> .....	59	previous years of registration in deaths
(42) <i>Meningitis</i> .....	192	from diseases of the brain and central
(43) <i>Paralysis</i> .....	745	nervous system. As shown in Table 69,
(44) <i>Brain disease, etc.</i> .....	180	

the death rate from diseases of the nervous system has pretty steadily increased during each of the five-year periods, with the exception of the first one, 1870-74, which was marked by an epidemic of cerebrospinal meningitis. The prevalence of epidemic influenza in this State during recent years and its depressing effects upon the inhabitants of advanced ages, have probably tended to increase the deaths of this group.

## CANCER AND TUMOR.

(45) Cancer.....	780	Deaths from cancers and tumors are studied together, there being much confusion of the two terms in their ordinary use. Pathologically, all cancers are tumors, but not all tumors are cancers; in common language, the term "tumor" appears to be restricted to non-malignant growths, or to malignant growths concealed from observation, such as cancer of the stomach. In Table 67 and Diagram II the course of cancer in Michigan may be examined for each year of registration, and its constant and regular increase in importance as a cause of death will be noted. The sinuous regularity of the curve and the absence of the fluctuations characteristic of the infectious diseases represented, are especially characteristic. The mortality increased for 1896 as usual.
(46) Tumor.....	161	
Total deaths from new growths.....	941	

use. Pathologically, all cancers are tumors, but not all tumors are cancers; in common language, the term "tumor" appears to be restricted to non-malignant growths, or to malignant growths concealed from observation, such as cancer of the stomach. In Table 67 and Diagram II the course of cancer in Michigan may be examined for each year of registration, and its constant and regular increase in importance as a cause of death will be noted. The sinuous regularity of the curve and the absence of the fluctuations characteristic of the infectious diseases represented, are especially characteristic. The mortality increased for 1896 as usual.

An increase in the mortality from cancer is generally indicated for recent years, not only in the Michigan Reports, but in those of other states and countries. It has been claimed that the large increase in the mortality from cancer is more apparent than real, and is due chiefly to more accurate diagnosis of cancers of inaccessible parts of the body.

In Table 71 may be seen the distribution of deaths from cancers and tumors, by sex and according to the parts of the body affected, for the year 1896, and also, for cancers only, for the period of twenty-four years, 1872-95. Of the whole number of deaths reported from cancer in the 24 years, 42.5 per cent were males, and 57.5 per cent females. Excluding from the total number of deaths of males all cases in which the organ affected was unspecified, we have 2,131 cases, of which 1,368, or 64.2 per cent were deaths from cancer of the stomach. Among females, the ratio of deaths from cancer of the stomach was less, being 41.7 per cent; 485 deaths, or 20.4 per cent were from cancer of the breast, and 385 deaths, or 16.2 per cent, were from cancer of the uterus.

## DEATHS CAUSED BY CHILDBIRTH.

(47) Childbirth .....	243	Besides the deaths returned under this head, there were 46 deaths from puerperal fever not included here, but classed under dangerous communicable diseases (line number 15).
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## DEATHS FROM CONVULSIONS.\*

(48) Convulsions .....	506	This is an indefinite term, merely expressive of the symptoms in deaths from certain causes. When specified as epileptic, puerperal or uremic, they are classified elsewhere. Over nine-tenths (91.7 per cent) of the total number were deaths of children under five years of age. Dr. Farr's original nosological classification of causes of deaths, which has served as a basis of most later ones, classified convulsions under the head of diseases of the nervous system, guided, evidently, by the obvious agency of the nervous system in convulsive attacks. Probably the great majority of fatal cases of "convulsions," especially in infants and young children, are not primarily of nervous origin, but are the effects of diseases of the digestive organs.
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## DIABETES.

(49) Diabetes .....	122	Diabetes, formerly classified under diseases of the urinary system, has been placed under general or diathetic diseases by some systems, and there is now a tendency to classify it among diseases of the nervous system. More deaths were reported from this cause than for any previous year.
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\* Considered by the State Board of Health, more especially cerebrospinal meningitis, as a dangerous communicable disease.

**Table 71.**—Deaths returned from cancer in Michigan for the year 1896, and for the twenty-four years 1872-95, inclusive, specifying the part of the body affected.

Cancer of—	Year, 1896.			Twenty-four years, 1872-95.		
	Total.	Males.	Females.	Total.	Males.	Females.
All organs .....	780	327	453	9,800	3,955	5,845
Abdomen.....	1	1		1	1	
Arm.....				6	3	3
Back.....	1		1	1	1	
Bladder.....	1	1		24	21	3
Bone.....				5	5	
Bowels.....	13	5	8	184	69	115
Brain.....				5	3	2
Breast.....	23		23	510	25	485
Chest.....				1		1
Ear.....				3	2	1
Esophagus.....				4	2	2
Eye.....				18	9	9
Face.....	18	14	4	245	181	64
Foot.....				4	4	
Gall bladder.....				1		1
Groin.....				5	4	1
Hand.....	1	1		5	4	1
Head.....	3	1	2	35	21	14
Heart.....	1	1		9	2	7
Hip.....				2	1	1
Jaw.....	2	1	1	5	4	1
Kidney.....				13	10	3
Knee joint.....	1	1				
Leg.....	1	1		23	16	7
Lip.....	5	5		10	10	
Liver.....	32	21	11	240	119	121
Lungs.....				21	8	13
Mouth.....	2	2		93	62	31
Navel.....	1		1			
Neck.....	1	1		42	31	11
Nose.....				4	4	
Omentum.....				1		1
Ovaries.....	1		1	3		3
Palate.....				1	1	
Pancreas.....	1	1		8	5	3
Pylorus.....				2	2	
Rectum.....	6	5	1	49	27	22
Shoulder.....				2	2	
Side.....				15	3	12
Spleen.....				1		1
Spine.....				6	3	3
Stomach.....	185	106	79	2,359	1,368	991
Throat.....	11	8	3	118	74	44
Thigh.....				1	1	
Testicles.....				4	4	
Tongue.....	3	2	1	33	19	14
Tonsils.....				1		1
Unspecified parts.....	428	149	279	4,791	1,824	2,967
Urethra.....				1		1
Uterus.....	38		38	385		385

NOTE.—Deaths returned from "Tumor" in Michigan, 1896. There were 161 deaths, 40 males and 121 females, so returned. Their distribution, by sex and organs affected was as follows: Abdomen, 1 male, 1 female; back, 1 male; bowels, 3 males, 2 females; brain, 5 males, 3 females; breast, 1 female; groin, 1 female; heart, 1 male; kidneys, 1 female; liver, 1 male, 1 female; neck, 2 males; ovaries, 11 females; side, 1 female; stomach, 3 males, 9 females; throat, 2 males; uterus, 5 females; unspecified, 21 males, 85 females.



## DEATHS FROM "DROPSY."

(50) **Dropsy** ..... 442 This is another indefinite return of cause of death which would be practically eliminated from Registration Reports under an efficient system of registration. In all cases of "dropsy," the disease responsible for that condition should be stated, whether cardiac, renal or other.

## "FEVER" (UNSPECIFIED FORM) AND MALARIAL FEVER.

(51) **Fever** ..... 87 The deaths returned simply as due to "fever" may have been caused by typhoid fever, malarial fever, or by any disease attended with a noticeable rise of temperature, such as pneumonia, or the exanthemata. Puerperal fever and septicemia after traumatism may not unfrequently be here included. The return has little interest or importance from its indefinite character, except as it may indicate a possible margin of correction of typhoid fever or other definitely specified fevers.

(52) **Malarial fever** ..... 101 This is a slight decrease for the year. On the whole malarial diseases have steadily diminished during the entire period of registration.

## DISEASES OF THE HEART AND CIRCULATORY SYSTEM.

(53) **Heart diseases** ..... 1,491 Very few of the deaths returned from  
 (54) **Pericarditis** ..... 77 diseases of the heart specify the exact  
 (55) **Heart disease, etc.** ..... 1,025 form of the malady, so that the 1,025  
 (56) **"Heart failure"** ..... 389 deaths from heart disease were practically

all returned in this indefinite form. This number does not include the 389 deaths from "heart failure," which have been separately compiled since 1891. For preceding years, as shown in Table 65, these deaths were included in heart disease. They are generally equivalent to deaths with cause unspecified,—so returned either through ignorance or carelessness,—and probably imply no actual heart disease. For this reason the statistics of heart disease at present are not comparable with those of years antedating the common use of this pernicious term.

**Table 72.**—Deaths in Michigan from influenza ("la grippe"), by months, according to the returns for the years 1888-96.

Years.	Total for year.	Months.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1888.....	2									1			1	
1889.....	176	30	28	17	11	6	7	2	2	4	8	19	41	1
1890.....	1,084	174	210	154	133	79	60	44	53	36	46	37	56	2
1891.....	1,076	110	83	96	249	110	62	48	31	48	37	38	160	4
1892.....	907	351	209	99	58	35	24	18	19	17	19	30	28	
1893.....	555	43	41	28	26	33	20	14	15	20	24	39	252	
1894.....	402	82	45	55	39	23	15	14	20	18	26	28	37	
1895.....	410	19	45	92	87	30	28	20	16	15	12	19	27	
1896.....	248	13	42	50	32	16	11	6	17	7	6	24	24	

## EPIDEMIC INFLUENZA OR "LA GRIPPE."

(54) *Influenza\** ..... 248 Epidemic influenza or "la grippe," which played so important a part in the returns of deaths for the first years of the decade, is rapidly declining in importance. A statement of the incidence by months is given in Table 72.

## DISEASES OF THE KIDNEYS.

(58) *Kidney diseases* ..... 624 The great majority of deaths returned  
(59) *Inflammation of kidneys* ..... 478 from diseases of the kidneys, especially  
(60) *Kidney disease, etc.* ..... 146 those included under the term inflammation

of the kidneys in the table, were specified as due to Bright's disease. The aggregate number of deaths from renal disease for the year exceeded that reported for any previous year of registration. Like heart diseases, kidney diseases seem to be increasing in this State during the period of years covered in Table 65. This may be, as has been observed elsewhere, on account of better diagnosis, and also, in part, from changes of fashion in medical nomenclature. Many deaths that would have been returned simply as "dropsy" in former years would at present be ascribed to some form of Bright's disease.

## DISEASES OF THE LIVER.

(61) *Liver disease, etc.* ..... 203 The returns under this head do no suggest much accuracy of statement as a rule, and are probably little to be relied upon.

## DISEASES OF THE LUNGS.

(62) *Lung diseases* ..... 1,889 This very important group does not  
(63) *Asthma* ..... 74 include consumption, the most fatal of all  
(64) *Bronchitis* ..... 181 diseases of the lungs, which is included  
(65) *Pleurisy* ..... 37 among the dangerous communicable dis-  
(66) *Pneumonia\** ..... 1,386 eases, owing to its infectious character.†  
(67) *Congestion of lungs* ..... 54 For convenience, however, the number of  
(68) *Lung diseases, etc.* ..... 157 deaths from consumption is placed below  
(4) *Consumption* ..... 2,093 the list, and the aggregate number of  
Total ..... 3,982 deaths from diseases of the lungs stated.

This was 3,982 persons, or nearly a quarter (22.7 per cent) of the entire mortality from specified causes during the year. Pneumonia is now ranked among the infectious diseases, but for reasons already given, it did not seem advisable to change its tabular place in the present Report.

## RHEUMATISM.

(69) *Rheumatism* ..... 167 While rheumatism is of great importance as a cause of sickness in Michigan, it is of less interest as a cause of mortality. Rheumatic fever, nevertheless, is coming to be regarded as an infectious disease, and while seemingly unimportant, numerically, as a direct cause of death, its effect as an important factor in deaths returned from other causes, notably from heart diseases, should not be underrated.

## SEPTIC INFECTION.

(70) *Septicemia* ..... 198 This represents an indefinite form of return, the majority of the cases being reported as "blood poisoning." Whether after wounds or injuries, or after parturition, is not specified except in a few cases which have been included under the proper heads.

\* Added to the list of dangerous communicable diseases by the State Board of Health in 1895.

† So classed by the Michigan State Board of Health on September 30, 1893.

## DISEASES OF THE SPINE.

(71) Spine disease, etc..... 121 Another indefinite return, it being uncertain whether disease of the spinal cord or of the vertebræ is intended. Most of the deaths are returned from spinal disease of unspecified character.

## DISEASES OF THE STOMACH.

(72) Stomach diseases..... 299 Diseases of the stomach are not usually specified very definitely. The very large number of deaths from cancer of the stomach has been already referred to under the subject of cancer, but it is very probable that many of the deaths reported as simply due to "disease of the stomach" may have been due to cancer.

(73) Inflammation of stomach..... 97

(74) Stomach disease, etc..... 202

## SYPHILIS.

(75) Syphilis..... 21 Deaths from this disease are probably not fully reported in Michigan. This has been the experience of countries where the registration of causes of death is far more precise than in this State, and it is not likely that our statistics, collected as they are from the friends and relatives of decedents, would show even the approximate number of deaths from this cause.

## UNCLASSIFIED DISEASES.

(76) Unclassified diseases..... 1,798 Unclassified diseases include the total deaths from uncertain and indefinite causes, sufficiently distinguished, however, to be recognized as certainly deaths from disease and not from violence, besides which some minor diseases of small numerical importance are included. Two diseases in this list, hydrophobia and tetanus, have been added to the list of dangerous communicable diseases. The character of the statements of causes of death in the following list is a sufficient commentary on the reliability of mortality statistics collected by enumeration (the method of the U. S. census). Under the new registration law now in force in Michigan all statements of causes of death are made by physicians, and the quality of the new returns is vastly superior in this important respect to those collected by supervisors.

Abscess (unspecified), 57; abdominal abscess, 1; abscess (cool), 2; abscess in ear, 1; abscess in head, 1; abscess in side, 1; abscess in throat, 1; abscess of chest, 1; abscess (internal), 2; acute alcoholism, 16; Addison's disease, 2; always sick, 1; amenorrhea, 1; anemia, 5; aneurism, 1; arteries, disease of, 1; army trouble, 1; atheroma, 1; asthenia, 1; bad cold, 7; bad disorder, 1; bled to death, 3; blood clot, 1; blood, congestion of, 1; blood, consumption of, 3; blood-vessel, rupture of, 20; born weak, 6; bronchial catarrh, 1; canker, sore mouth (including one "struck through the system"), 10; capillary hemorrhage, 1; carbuncle, 4; catarrh, 14; catarrh in throat, 1; change of life, 6; chill, 2; chronic ailment, 1; cigarette smoking, 1; cold, 14; cold, effects of, 1; cold in head, 1; complication of diseases, 31; congestion, 4; contraction of a cold, 1; cough, 2; cough and cold, 1; cripple when born, 1; cyanosis, 2; debility, 174; deformed mouth, 1; delirium tremens, 3; died at birth (not necessarily still-born), 4; dropped dead, 3; ear, organic disease of, 1; eczema, 9; "enlargement of some of the insides," 1; epistaxis, 2; exhaustion, 12; exophthalmic goitre, 5; female complaint, 3; female trouble (operation), 1; femur, necrosis of, 1; found dead, 6; gangrene, 29; gangrene of leg, 3; gangrenous throat, 1; general collapse, 2; goitre, 2; grief and trouble, 1; gun-shot wound received in army, 1; hemorrhage, 25; Hodgkins's disease, 1; hydrophobia, 3; hydropsyosalphinx, 1; imperfect circulation, 1; inanition, 69; incident to birth, 1; infancy, 9; inflammation, 42; inflammation of leg (acute), 1; innutrition, 2; insomnia, 1; internal hemorrhage, 2; internal trouble, 2; lack of care and ill treatment, 2; laryngitis, 11; leukemia, 1; lymphadenoma, 1; malformation, 2; malignant quinsy, 3; malnutrition, 11; mastoid disease, 1; metritis, 1; mumps, 2; narcosis, 1; natural causes, 9; necrosis, 2; necrosis of ribs, 1; necrosis of skull, 1; neglect of physician, 1; nerves, neuralgia of, 1; nervousness, 2; nervous debility, 1; nervous prostration, 45; nervous shock, 1; neuralgia, 15; non-development, 2; non-nutrition, 1; no palate-starved, 1; no special cause, 1; old age, 810; osteo-mylitis, 1; ovaries, disease of, 2; ovaries, inflammation of, 1; ovariitis, 2; pelvic abscess, 9; pelvic cellulitis, 1; pelvic inflammation, 1; perineal fistula, 1; perniciou anemia, 6; peaos abscess, 1; purpura hemorrhagica, 2; pharyngitis, 1; poisonous chills, 1; prostration, 2; pylorus, inflammation of, 1; pyo-salphinx, 4; rachitis, 1; rectum, disease of, 1; scorbutus, 1; shingles, 1; sickly, 1; sickness, 3; sickness of mother, 1; sore head, 2; sore mouth, 2; spina bifida, 5; spleen disease, 1; spleen, enlargement of, 3; spleen, inflammation of, 1; starvation, 1; stricture, 4; subclavian artery, thrombosis of, 1; sudden death, 3; "swelling inside from cold," 1; teething, 40; tetanus, 10; throat disease, 13; throat, paralysis of, 1; tonsillitis, 16; trichinosis, 1; ulcers, 1; urethra, stricture of, 1; urine, suppression of, 1; uterus, hemorrhage of, 1; uterus, hypertrophy of, 1; uterus, inflammation of, 2; venereal disease, 1; vocal cord, paralysis of, 1; volvulation, 1; worm fever, 1; worms, 4. Besides these, there were 40 deaths reported in most of which the statements of the names of the diseases were utterly unintelligible, although the reporters had evidently endeavored to express the names of diseases.

## DEATHS FROM VIOLENCE IN MICHIGAN, 1896.

The category of deaths from violent causes comprises three general heads: (1) Deaths from accidental injuries; (2) suicides, and (3) deaths caused by homicidal violence. All deaths returned simply as due to drowning, poison, etc., the circumstances attending being otherwise unspecified, are presumed to be accidental. Doubtless a few suicidal cases are thus included. Under "homicide" many of the instances are returned as "murder." The statements given in the returns are not sufficiently definite to determine the legal character of the crime involved, and accordingly all are grouped under the general term.

In Table 75 may be found a statement of the number of deaths reported from each of these classes by sex, months of death, and periods of age of decedents, and also, under the general heading "accidental," the numbers returned from the chief causes of accidental death, namely, burning, drowning, heat and sunstroke, gunshot-wounds, lightning, mining accidents, poison, railroad accidents and injuries from horses and vehicles.

Table 73 presents a detailed statement of the total number of deaths in the State in 1896 from these causes, and from certain minor causes included in one group under the heading, "all other casualties." The distribution of the principal causes of violent deaths is given for the counties of the State in Table 74, and Table 76 gives the deaths and death rates per 100,000 population from accidents, suicides and homicides for each year of registration since 1870. Five-year averages enable the general tendency of the returns of violent deaths to be readily appreciated.

Table 73.—Deaths from violence in Michigan, 1896, manner specified.

Manner of death.	Number.	Manner of death.	Number.
<b>TOTAL NUMBER OF DEATHS FROM VIOLENT CAUSES</b> .....	1,289	Freezing.....	2
<b>I.—ACCIDENTAL</b> .....	1,115	Machinery in mills, etc., injuries from.....	9
<b>II.—SUICIDAL</b> .....	157	Rattlesnake bite.....	2
<b>III.—HOMICIDAL</b> .....	17	Scalding.....	23
		Surgical operations.....	46
		Wall, Fall of (Opera House, St. Joseph).....	6
		Miscellaneous and unspecified.....	322
<b>I.—ACCIDENTAL</b> .....	1,115	<b>II.—SUICIDAL</b> .....	157
Burning.....	81	Burning.....	1
Drowning.....	154	Drowning.....	10
Gunshot.....	51	Hanging.....	13
Heat and sunstroke.....	8	Poison.....	13
Lightning.....	19	Morphine.....	5
Mining accidents.....	44	Unspecified poison.....	8
Poison.....	59	Shooting.....	17
Railroad injuries.....	76	Strangulation.....	1
Vehicles and horses.....	34	Threshing machine.....	1
<i>All other casualties</i> .....	589	Unspecified.....	101
Animals other than horses.....	5	<b>III.—HOMICIDAL</b> .....	17
Asphyxia.....	18	Fractured skull.....	1
Birth, injury at.....	4	Gunshot.....	9
Cyclone.....	37	"Murdered"—not further specified.....	7
Electric shock.....	3		
Explosion, Boiler.....	8		
Exposure.....	5		
Fall.....	36		
Falling trees.....	20		
Fractures.....	43		

**Table 74.**—Deaths from violence in Michigan, by counties, 1896.

State and counties.	Total deaths from violence, 1896.	I.—Accidents.										II.—Suicides.	III.—Homicides.	
		Total acci- dents.	Burning.	Drowning.	Gunshot.	Heat and sun- stroke.	Lightning.	Mining.	Poison.	Railroad.	Vehicles, etc.			All others.
State .....	1,289	1,115	81	154	51	8	19	44	59	76	34	589	157	17
Alcona.....	5	5	1	2								2		
Alger.....	4	4										4		
Allegan.....	21	16	2	3	1		1			1	2	6	5	
Alpena.....	10	10										10		
Antrim.....	8	5										5	3	
Arenac.....	2	2		1	1									
Baraga.....	2	2		1	1									
Barry.....	10	6		1			1					4	4	
Bay.....	41	40	3	14					1	1		21	1	
Benzie.....	4	4		1								3		
Berrien.....	36	34	1	8	2				1	4		18	2	
Branch.....	8	5	1						1			3	3	
Calhoun.....	20	16	4	1	3		1			2		5	4	
Cass.....	5	4				1			1	1		1	1	
Charlevoix.....	9	8		2	3							3	1	
Cheboygan.....	8	7	4	1					1			1	1	
Chippewa.....	11	11	2	5					1			3		
Clare.....	8	7		3	2							2	1	
Clinton.....	12	11		2	2					1		6	1	
Crawford.....	0													
Delta.....	13	13		4						4	1	4		
Dickinson.....	16	16	1	2	1	1	1	6		1		3		
Eaton.....	12	7	1	1					3			2	5	
Emmet.....	10	8	1	1	1					1	1	4	2	
Genesee.....	26	24	1	4					1	5	1	12	2	
Gladwin.....	1												1	
Gogebic.....	27	25	1	1				19		2		2	2	
Gd. Traverse.....	4	3	1	2									1	
Gratiot.....	10	9	3		1		1		1		1	2	1	
Hillsdale.....	6	6	1	1					1			3		
Houghton.....	39	35		6				6				23	3	1
Huron.....	12	10	1	2					1		1	5	2	
Ingham.....	11	10		1					1			8	1	
Ionia.....	17	13			1		1			5	1	5	4	
Iosco.....	9	8	1	2							1	4	1	
Iron.....	7	7		2	1			3				1		
Isabella.....	7	7					1			2		4		
Jackson.....	18	16	2		2					3		9	2	
Kalamazoo.....	21	15	2	1	2				1	3		7	6	
Kalkaska.....	1	1	1											
Kent.....	61	49	7	3	1	3			4	3	5	23	11	1
Keweenaw.....	2	1										1		1
Lake.....	3	3	1		1							1		
Lapeer.....	16	11		1					1			9	2	3
Leelanau.....	5	5		2	1							2		
Lenawee.....	18	16	1		1		1			2	2	9	2	
Livingston.....	7	7	1	1					1	2		2		
Luce.....	1	1										1		
Mackinac.....	3	3										3		
Macomb.....	21	16	1	1			1			1	2	10	5	

Table 74.—CONCLUDED.

Counties.	Total deaths from violence, 1896.	I.—Accidents.										II.—Suicides.	III.—Homicides.
		Total acci- dents.	Burning.	Drowning.	Gunshot.	Heat and sun- stroke.	Lightning.	Mining.	Poison.	Railroad.	Vehicles, etc.		
Manistee.....	14	13	—	1	1	—	—	—	—	1	10	1	—
Marquette.....	49	46	3	7	—	—	8	1	3	—	24	2	1
Mason.....	11	11	—	2	1	—	1	—	1	1	5	—	—
Mecosta.....	6	6	—	1	—	—	—	—	—	—	3	—	—
Menominee.....	17	11	—	2	1	—	—	—	—	—	8	6	—
Midland.....	5	5	—	—	2	—	—	—	1	—	2	—	—
Missaukee.....	3	3	—	—	—	—	—	—	—	—	3	—	—
Monroe.....	15	15	6	—	1	—	—	—	1	—	7	—	—
Montcalm.....	10	9	1	2	—	—	—	—	1	—	5	1	—
Montmorency.....	3	3	—	—	1	—	—	1	—	—	1	—	—
Muskegon.....	16	12	—	2	—	—	1	2	—	—	7	4	—
Newaygo.....	6	4	—	1	1	—	—	—	1	—	1	2	—
Oakland.....	48	46	—	2	1	—	—	—	2	—	41	2	—
Oceana.....	9	2	1	—	—	—	—	—	—	—	1	2	5
Ogemaw.....	3	3	—	2	—	—	1	—	—	—	—	—	—
Ontonagon.....	12	11	—	4	1	—	1	1	2	—	1	1	—
Osceola.....	3	3	—	—	—	—	—	—	—	2	1	—	—
Oscoda.....	1	1	—	—	—	—	—	—	—	—	1	—	—
Otsego.....	1	1	—	—	—	—	—	—	—	—	1	—	—
Ottawa.....	16	11	4	1	2	—	—	—	1	—	3	4	1
Presque Isle.....	2	1	—	—	—	—	1	—	—	—	—	1	—
Roscommon.....	0	—	—	—	—	—	—	—	—	—	—	—	—
Saginaw.....	49	44	2	9	2	—	—	2	4	3	22	5	—
Sanilac.....	14	12	—	—	—	—	1	2	1	—	8	2	—
Schoolcraft.....	4	4	—	1	—	—	—	—	—	—	3	—	—
Shiawassee.....	7	7	1	—	2	—	—	1	—	—	3	—	—
St. Clair.....	30	23	2	5	1	—	—	—	1	—	14	7	—
St. Joseph.....	23	18	—	1	2	—	1	—	3	2	5	5	—
Tuscola.....	15	14	1	1	1	—	—	3	1	1	6	1	—
Van Buren.....	13	10	3	2	—	—	—	—	—	1	4	3	—
Washtenaw.....	18	13	—	1	—	—	—	—	5	4	3	4	1
Wayne.....	231	205	10	24	4	3	3	19	3	1	138	23	3
Wexford.....	7	6	1	—	—	—	1	2	—	—	2	1	—

The great uniformity in the death rates from violence in Michigan for successive years may be seen in Table 76 on page 174. The five-year averages range only from 46.2 to 51.8 per 100,000 estimated population, and the rates for individual years, although exhibiting a slightly wider range of variation, are not far from the mean. We may note that for 1896 the rate (55.7) was less than that for the preceding year. Both years were considerably above the average. A marked decline in the rate of deaths from suicides (6.8) may be observed from the maximum rate in 1894 (7.9), although this rate still remains high for Michigan.

**Table 75.**—Deaths from violence in Michigan during the year.

Causes of deaths, 1896.	Sex.	Total deaths 1896.	Months of deaths, 1896.												
			January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
VIOLENT DEATHS.....	Total.....	1,289	84	72	74	116	134	130	128	145	104	103	93	103	3
	Male.....	997	63	52	58	88	90	101	101	116	91	78	68	83	3
	Female.....	291	21	15	15	28	44	29	27	29	13	25	25	20	---
	Unknown.....	1	---	---	1	---	---	---	---	---	---	---	---	---	---
I—ACCIDENTAL.....	Total.....	1,115	70	67	62	94	123	118	107	126	89	85	79	92	3
	Male.....	849	52	52	46	71	81	90	85	101	78	60	56	74	3
	Female.....	265	18	15	15	23	42	28	22	25	11	25	23	18	---
	Unknown.....	1	---	---	1	---	---	---	---	---	---	---	---	---	---
Burning.....	Total.....	81	6	5	4	5	6	9	10	4	4	8	16	4	---
	Male.....	35	2	1	2	2	1	3	4	2	2	2	11	3	---
	Female.....	46	4	4	2	3	5	6	6	2	2	6	5	1	---
Drowning.....	Total.....	154	9	3	4	13	17	24	21	28	10	11	4	9	1
	Male.....	141	9	3	3	10	17	22	21	25	10	8	3	9	1
	Female.....	13	---	---	1	3	---	2	---	3	---	3	1	---	---
Gunshot.....	Total.....	51	4	1	4	5	3	3	1	1	3	5	11	10	---
	Male.....	48	4	1	4	4	2	3	1	1	3	5	10	10	---
	Female.....	3	---	---	---	1	1	---	---	---	---	---	1	---	---
Heat and sunstroke.	Total.....	8	---	---	---	---	---	2	2	3	1	---	---	---	---
	Male.....	7	---	---	---	---	---	1	2	3	1	---	---	---	---
	Female.....	1	---	---	---	---	---	1	---	---	---	---	---	---	---
Lightning.....	Total.....	19	---	---	---	5	1	1	3	7	2	---	---	---	---
	Male.....	18	---	---	---	5	1	1	3	6	2	---	---	---	---
	Female.....	1	---	---	---	---	---	---	---	1	---	---	---	---	---
Mining accidents.....	Total.....	44	2	9	6	5	5	2	4	4	2	1	3	1	---
	Male.....	44	2	9	6	5	5	2	4	4	2	1	3	1	---
	Female.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Poison.....	Total.....	59	3	5	2	2	4	6	10	8	4	1	6	8	---
	Male.....	31	1	2	---	---	2	3	7	5	2	1	3	5	---
	Female.....	28	2	3	2	2	2	3	3	3	2	---	3	3	---
Railroad injuries.....	Total.....	76	5	6	4	4	5	5	12	10	5	10	6	4	---
	Male.....	62	2	6	3	4	4	5	10	8	4	9	4	3	---
	Female.....	14	3	---	1	---	1	---	2	2	1	1	2	1	---
Vehicles and horses	Total.....	34	2	---	2	5	1	6	6	4	---	4	---	4	---
	Male.....	27	---	---	1	4	---	4	6	4	---	4	---	4	---
	Female.....	7	2	---	1	1	1	2	---	---	---	---	---	---	---
All other casualties	Total.....	589	39	38	36	50	81	60	38	57	58	45	33	52	2
	Male.....	436	32	30	27	37	49	46	27	43	52	30	22	39	---
	Female.....	152	7	8	8	13	32	14	11	14	6	15	11	13	---
	Unknown.....	1	---	---	1	---	---	---	---	---	---	---	---	---	---
II—SUICIDAL.....	Total.....	157	12	5	11	15	11	12	16	19	13	18	14	11	---
	Male.....	136	9	5	11	13	9	11	12	15	12	18	12	9	---
	Female.....	21	3	---	---	2	2	1	4	4	1	---	2	2	---
III—HOMICIDAL.....	Total.....	17	2	---	1	7	---	---	5	---	2	---	---	---	---
	Male.....	12	2	---	1	4	---	---	4	---	1	---	---	---	---
	Female.....	5	---	---	---	3	---	---	1	---	1	---	---	---	---

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Ages by years under five.					Ages of decedents by five-year periods, 1896.																		
0.	1.	2.	3.	4.	0 to 4.	5 to 9.	10 to 14.	15 to 19.	20 to 24.	25 to 29.	30 to 34.	35 to 39.	40 to 44.	45 to 49.	50 to 54.	55 to 59.	60 to 64.	65 to 69.	70 to 74.	75 to 79.	80 +	Unknown.	
51 32 19	18 10 8	35 22 13	23 13 10	31 21 10	158 98 60	70 51 19	66 57 9	99 81 18	91 66 25	114 102 12	91 78 13	70 54 16	86 72 14	75 58 17	70 57 13	59 50 9	65 51 14	42 33 9	41 26 15	32 25 7	31 17 14	29 21 7	
51 32 19	18 10 8	34 21 13	23 13 10	30 20 10	156 96 60	68 51 17	64 55 9	88 76 12	84 60 24	110 98 12	71 59 12	57 43 14	71 61 10	55 40 15	52 43 9	44 35 9	48 36 12	37 29 8	32 17 15	24 17 7	28 14 14	26 16 6	
3 2 1	4 4 ---	5 2 3	10 7 3	7 4 3	29 19 10	10 4 6	2 1 1	4 3 1	8 1 7	7 3 4	---	3 1 2	1 1 ---	6 1 5	1 1 ---	---	2 2 ---	3 3 1	1 1 ---	2 1 1	2 1 1	2 1 1	
2 2 ---	2 1 1	7 3 4	3 3 ---	5 5 ---	19 14 5	19 17 2	24 24 ---	25 23 2	18 15 3	14 14 ---	9 9 ---	4 4 ---	8 8 ---	1 1 ---	4 4 ---	1 1 ---	1 1 ---	2 1 1	1 1 ---	---	1 1 ---	1 1 ---	
---	---	---	---	---	---	3 3	11 11	11 11	6 4 2	4 3 1	2 2 ---	---	2 2 ---	1 1 ---	3 3 ---	---	1 1 ---	1 1 ---	---	2 2 ---	---	3 3	
1 1 ---	1 1 ---	---	---	---	2 1 1	1 1 ---	---	1 1 ---	---	2 2 ---	---	---	---	---	---	---	1 1 ---	1 1 ---	---	---	---	---	
---	---	---	---	---	---	2 2	2 1 1	2 2	3 3	---	1 1	1 1	1 1	1 1	2 2	---	2 2	1 1	---	---	1 1	---	
---	---	---	---	---	---	---	1 1	2 2	5 5	12 12	6 6	1 1	5 5	6 6	1 1	1 1	1 1	---	---	---	1 1	---	
3 1 2	3 3 ---	3 2 1	1 1 ---	1 1 ---	11 4 7	---	---	4 1 3	2 2	2 2	1 1	7 5 2	11 7 3	5 3 2	---	6 4 2	2 2	3 2	3 3	---	---	---	
---	---	1 1	1 1	---	2 1 1	2 2	2 2	5 3 2	7 5 2	12 12	7 6 1	4 4	6 6	6 5	7 5 2	2 2	4 3 3	5 3 2	1 1	2 2	1 1	---	
---	---	---	---	---	---	3 3	3 3	2 1 1	---	1 1	2 2	---	3 3	4 1 3	2 2	3 1	2 2	2 2	---	4 2	3 3	---	
42 26 16	8 5 3	18 13 5	8 3 5	17 10 7	93 57 36	28 21 7	19 12 7	32 29 3	35 27 8	56 50 6	42 33 9	37 27 10	34 29 5	25 21 4	33 26 7	31 25 6	32 23 9	19 18 1	26 12 14	14 10 7	20 14 13	13 9 8	
---	---	---	---	---	---	---	1 1	10 5 5	6 5 1	4 4	17 16 1	13 11 2	14 11 3	19 18 1	17 13 4	14 14	16 14 2	5 4 1	8 8	8 8	3 3	3 3	
---	---	1 1	---	1 1	2 2	2 1	1 1	1 1	1 1	---	3 3	---	1 1	1 1	1 1	1 1	1 1	---	1 1	---	---	---	



**Table 76.**—Deaths from violence in Michigan, accidental, suicidal, and homicidal, as returned for each of the years, 1870-96; with proportions to deaths from disease and rates per 100,000 population; with averages for quinquennial and 25-year periods.

Years and periods.	Total deaths from violence.		I. Accidental.		II. Suicidal.		III. Homicidal.		Rates per 100,000 population.			
	Num-ber.	Rate per 1,000 deaths from dis-ease.*	Num-ber.	Per cent of violent deaths.	Num-ber.	Per cent of violent deaths.	Num-ber.	Per cent of violent deaths.	Total vio-lence.	I. Acci-dental.	II. Sui-cidal.	III. Homi-cidal.
1870.....	496	56.1	456	92.1	34	6.9	5	1.0	41.8	38.5	2.9	.4
1871.....	539	68.1	490	90.9	40	7.4	9	1.7	44.1	40.1	3.3	.7
1872.....	541	48.1	498	92.1	35	6.5	8	1.5	43.0	39.6	2.8	.6
1873.....	685	58.1	629	91.8	39	5.7	17	2.5	52.8	48.5	3.0	1.3
1874.....	656	66.5	591	90.1	53	8.1	12	1.8	49.2	44.3	4.0	.9
1875.....	646	69.8	577	89.3	52	8.0	17	2.6	46.7	41.7	3.8	1.2
1876.....	747	75.4	681	91.2	54	7.2	12	1.6	52.1	47.5	3.8	.8
1877.....	654	64.9	575	87.9	66	10.1	13	2.0	44.0	38.7	4.4	.9
1878.....	691	69.6	617	89.3	63	9.1	11	1.6	45.0	40.2	4.1	.7
1879.....	697	60.5	621	89.1	59	8.5	17	2.4	43.9	39.1	3.7	1.1
1880.....	875	67.2	804	91.9	65	7.4	6	.7	53.5	49.1	4.0	.4
1881.....	966	60.7	895	92.7	57	5.9	14	1.4	57.1	52.9	3.4	.8
1882.....	778	58.2	704	90.5	62	8.0	12	1.5	44.6	40.3	3.6	.7
1883.....	940	68.8	831	88.4	91	9.7	18	1.9	52.2	46.2	5.1	1.0
1884.....	898	59.3	769	85.6	104	11.6	25	2.8	48.4	41.5	5.6	1.3
1885.....	907	65.9	787	86.8	91	10.0	29	3.2	47.9	41.6	4.8	1.5
1886.....	923	60.3	811	87.9	82	8.9	30	3.3	47.7	41.9	4.2	1.6
1887.....	1,044	64.2	910	87.2	105	10.1	29	2.8	52.9	46.1	5.3	1.5
1888.....	1,033	57.0	918	88.9	101	9.8	14	1.4	51.3	45.6	5.0	.7
1889.....	1,096	65.4	970	88.5	94	8.6	32	2.9	53.4	47.2	4.6	1.6
1890.....	1,085	61.6	963	88.8	108	10.0	14	1.3	51.8	46.0	5.2	.6
1891.....	993	54.8	899	90.5	79	8.0	15	1.5	46.6	42.2	3.7	.7
1892.....	1,144	65.1	1,020	89.2	107	9.4	17	1.5	52.8	47.1	4.9	.8
1893.....	1,175	65.6	1,050	89.4	109	9.3	16	1.4	53.3	47.6	4.9	.7
1894.....	1,213	71.5	1,020	84.1	176	14.5	17	1.4	54.1	45.5	7.9	.8
1895.....	1,301	70.5	1,114	85.6	174	13.4	13	1.0	57.1	48.9	7.6	.6
1896.....	1,289	73.6	1,115	86.5	157	12.2	17	1.3	55.7	48.2	6.8	.7
A v. 1870-74	583	58.7	533	91.4	40	6.9	10	1.7	46.3	42.3	3.2	.8
A v. 1875-79	687	67.8	614	89.4	59	8.6	14	2.0	46.2	41.3	4.0	.9
A v. 1880-84	891	62.6	801	89.9	76	8.5	15	1.7	51.1	45.9	4.4	.9
A v. 1885-89	1,001	62.4	879	87.8	95	9.5	27	2.7	50.7	44.5	4.8	1.4
A v. 1890-94	1,122	63.6	990	88.2	116	10.3	16	1.4	51.8	45.7	5.4	.7
A v. 1870-94	857	63.0	768	89.0	77	9.0	16	1.9	49.2	43.9	4.4	.9

\* Compared with line 2, Table 65.

## CLIMATIC CONDITIONS AFFECTING CAUSES OF DEATH.

The usual series of tables representing the meteorological conditions of the year is presented for comparison with mortality data. The latter, unfortunately, are unreliable by months, as has been fully explained on a previous page. Consequently only general comparisons are possible, and great care must be taken to avoid confusing the peculiarities of imperfect registration with the effects of climate. Fortunately we shall not have to depend in future on imperfect mortality statistics, as the results of the new registration law operative in August, 1897, have already furnished results of the highest value for meteorological study. These are presented in the *Michigan Monthly Bulletin of Vital Statistics*, beginning with the month of September, 1897, the meteorological data being provided by the Michigan State Weather Service co-operating with the U. S. Weather Bureau of the Department of Agriculture. The data in the present Registration Report have been kindly supplied by the Michigan State Board of Health, together with the following remarks on the meteorological characteristics of the year:

### METEOROLOGICAL CHARACTERISTICS OF THE YEAR 1896 IN MICHIGAN.

At the several meteorological stations in different parts of the State, the average temperature for 1896 was 1.64° higher than the average for the preceding 19 years; the annual range of the temperature was 5° less than in 1895, and 3° less than the annual range for the preceding 18 years; the average monthly range of temperature was 2° less than in 1895, and 1° greater than the average for the preceding 19 years. The average daily range of temperature was 1.70° less than in 1895, and .59 less than the average for the preceding 17 years; the average cloudiness was 6 per cent greater than in 1895, and 1 per cent greater than the average for the preceding 19 years; the rainfall (rain and melted snow) was 5.59 inches greater than in 1895, and 2.01 inches less than the average for the preceding 19 years; the average atmospheric pressure was .012 of an inch greater than in 1895, and .001 of an inch greater than the average for the preceding 19 years.

**Table 77.**—Average temperature by year and months in 1896, compared with annual and monthly averages for 1895, and for the 19 years, 1877-95. These averages are for groups of several stations in Michigan. (Data supplied by State Board of Health.)

Years, etc.	Average temperature,—degrees Fahrenheit.												
	Ann'al av.	Jan	Feb.	Mar..	Apr.	May.	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Av. 19 years, 1877-95..	46.25	21.23	23.23	29.83	44.57	55.90	66.47	70.76	68.12	61.56	49.23	36.04	28.06
1896.....	46.37	19.04	17.27	27.39	47.23	59.49	70.60	70.10	70.11	65.92	44.54	36.03	28.68
1896.....	47.89	24.88	24.57	28.11	51.33	64.77	68.12	71.02	69.61	58.57	45.80	38.70	29.24

**Table 78.**—Average daily range of temperature by year and months in 1896, compared with annual and monthly averages for 1895, and for the 17 years, 1879-95. These averages are for groups of several stations in Michigan. (Data supplied by State Board of Health.)

Years, etc.	Average daily range of temperature,—degrees Fahrenheit.												
	Ann'al av.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Av. 17 years, 1879-95..	18.07	15.73	17.23	17.44	19.16	20.28	20.68	21.18	20.49	20.12	17.19	14.10	13.22
1895.....	19.18	15.24	16.07	18.55	19.90	22.41	24.11	23.58	21.93	20.98	18.64	15.19	13.59
1896.....	17.48	11.49	15.56	16.48	19.39	21.82	21.27	19.50	19.93	18.22	18.28	14.64	13.12

**Table 79.**—Comparison of the extremes and of the range of temperature, by year and months, in 1896, with annual and monthly averages for the preceding 6 years, 1890-95, and for the 19-year period, 1877-95. Observations made with registering thermometers by observers for the State Board of Health and for the U. S. Signal Service. These comparisons, etc. are for groups of several stations in Michigan. (Data supplied by State Board of Health.)

Year and Months.	Extremes and range of temperature,—degrees Fahrenheit.*																	
	1890.			1891.			1892.			1893.			1894.			1895.		
	Highest.	Lowest.	Range.	Highest.	Lowest.	Range.	Highest.	Lowest.	Range.	Highest.	Lowest.	Range.	Highest.	Lowest.	Range.	Highest.	Lowest.	Range.
Year.....	100	-26	126	100	-14	114	102	-24	126	97	-26	123	102	-26	128	100	-28	128
January.....	66	-14	80	52	-10	62	57	-22	79	49	-26	75	57	-18	75	50	-12	62
February.....	63	-8	71	55	-14	69	52	-24	76	44	-23	67	54	-26	80	54	-28	82
March.....	59	-26	85	58	-8	66	64	-13	77	66	-6	72	70	-2	81	69	-16	85
April.....	80	1	79	87	10	77	70	13	66	80	9	71	88	12	76	82	17	65
May.....	91	21	70	85	25	60	85	27	58	88	27	61	94	30	64	98	26	72
June.....	98	32	66	97	31	66	102	34	68	96	36	60	98	33	65	99	37	62
July.....	98	39	59	95	37	58	97	41	56	96	43	53	102	37	65	100	38	62
August.....	100	34	66	100	37	63	95	37	58	97	38	59	99	32	67	97	36	61
September.....	90	27	63	93	35	58	92	30	62	89	22	67	99	29	70	98	28	70
October.....	80	24	56	87	21	66	82	23	59	84	22	62	80	20	60	80	10	70
November.....	68	0	68	65	-3	68	64	5	59	68	6	62	67	-7	74	72	-1	73
December.....	50	-6	56	60	8	52	58	-11	69	62	-14	76	60	-19	79	63	-24	87

\* For the 20 years, 1877-96, the highest temperature was 105°, at Battle Creek, September 9, 1884; the lowest was — 36°, at Manistique, January 27, 1885.

**Table 80.**—Average absolute humidity, by year and months, in 1896, compared with annual and monthly averages for 1895, and for the 19 years, 1877-95. These averages are for groups of several stations in Michigan. (Data supplied by State Board of Health.)

Years, etc.	Absolute humidity,—grains of vapor in a cubic foot of air.												
	Annual av.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Av. 19 years, 1877-95..	3.44	1.44	1.53	1.83	2.79	3.94	5.53	6.02	5.73	4.93	3.49	2.31	1.81
1895.....	3.35	1.19	1.17	1.49	2.90	4.42	5.56	5.39	5.87	5.37	2.76	2.23	1.82
1896.....	3.65	1.54	1.50	1.56	3.69	5.03	5.64	6.43	6.40	4.66	3.06	2.60	1.75

**Table 81.**—Average relative humidity, by year and months, in 1896, compared with annual and monthly averages for 1895, and for the 18 years, 1878-95. These averages are for groups of several stations in Michigan. (Data supplied by State Board of Health.)

Years, etc.	Relative humidity,—per cent of saturation.												
	Annual av.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Av. 18 years, 1878-95..	76	83	83	79	71	70	73	71	73	75	76	80	83
1895.....	74	80	78	75	70	70	66	66	72	72	72	79	82
1896.....	77	83	79	76	74	72	72	76	78	80	76	81	82

**Table 82.**—Average per cent of cloudiness, by year and months, in 1896, compared with annual and monthly averages for 1895, and for the 19 years, 1877-95. These averages are for groups of several stations in Michigan. (Data supplied by State Board of Health.)

Years, etc.	Per cent of cloudiness,												
	Annual av.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Av. 19 years, 1877-95..	55	70	64	57	52	50	47	40	42	44	57	69	74
1895.....	50	68	57	48	48	44	36	45	38	38	44	65	73
1896.....	56	79	65	52	52	41	39	48	41	61	50	77	71

**Table 83.**—*Inches of rain and melted snow by year and months, in 1896, compared with annual and monthly averages for 1895, and for the 19 years, 1877-95. These averages are for groups of several stations in Michigan. (Data supplied by State Board of Health.)*

Years, etc.	Inches of rain and melted snow.												
	Annual av.	Jan.	Feb.	Mar.	Apr.	May.	June.	Jul .	Aug.	Sept.	Oct.	Nov.	Dec.
Av. 19 years, 1877-95..	34.66	2.25	2.46	2.19	2.54	3.60	3.71	2.93	3.01	3.08	3.10	3.12	2.71
1895.....	27.06	2.95	0.72	0.97	1.51	3.04	1.34	1.47	3.23	2.53	1.18	3.48	4.65
1896.....	32.65	1.61	1.34	1.29	2.91	3.14	3.13	4.25	3.95	4.92	1.80	3.38	0.92

**Table 84.**—*Average amount of atmospheric ozone (day) by year and months, in 1896, compared with annual and monthly averages for 1895, and for the 19 years, 1877-95. These averages are for groups of several stations in Michigan. (Data supplied by State Board of Health.)*

Years, etc.	Ozone by day,—degree of coloration of test-paper.*												
	Annual av.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Av. 19 years, 1877-95..	3.46	3.66	3.77	3.79	3.60	3.71	3.47	3.03	3.40	3.16	3.17	3.21	3.47
1895.....	3.67	4.18	4.05	4.10	4.07	4.17	3.51	2.91	3.92	3.14	3.04	3.19	3.74
1896.....	3.71	3.91	4.12	4.20	4.07	3.83	3.67	3.03	4.00	3.15	3.29	3.45	3.78

\*In this table allowance has been made for difference in sensitiveness of different lots of test-paper. Scale = 10 degrees.

**Table 85.**—*Average amount of atmospheric ozone (night) by year and months, in 1896, compared with annual and monthly averages for 1895, and for the 19 years, 1877-95. These averages are for groups of several stations in Michigan. (Data supplied by State Board of Health.)*

Years, etc.	Ozone by night,—degree of coloration of test-paper.*												
	Annual av.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Av. 19 years, 1877-95..	3.63	3.96	4.28	4.25	3.99	3.92	3.64	3.03	3.19	2.98	3.29	3.45	3.86
1895.....	4.09	4.15	4.60	4.65	4.55	4.62	4.16	3.57	4.27	3.49	3.33	3.46	4.24
1896.....	4.16	4.04	4.61	4.64	4.48	4.53	4.40	3.62	4.37	3.54	3.43	3.95	4.29

\*In this Table allowance has been made for difference in sensitiveness of different lots of test-paper. Scale = 10 degrees.

**Table 86.**—Average velocity of the wind in miles per hour, by year and months, in 1896, compared with annual and monthly averages for 1895, and for the 14 years, 1882-95. These averages are for groups of several stations in Michigan. (Data supplied by State Board of Health.)

Years, etc.	Average velocity of wind,—miles per hour.												
	Annual av.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Av. 14 years, 1882-95.	9.7	10.8	10.8	10.7	10.4	9.5	7.9	7.9	7.6	8.8	9.7	10.8	11.1
1895.....	10.2	11.8	11.7	12.2	9.3	9.5	8.3	8.4	8.1	10.7	11.9	10.2	10.5
1896.....	9.8	9.8	11.8	12.0	11.2	10.3	7.4	7.6	8.0	9.2	9.0	12.3	9.1

**Table 87.**—Average atmospheric pressure, by year and months, in 1896, compared with annual and monthly averages, for 1895, and for the 19 years, 1877-95. These averages are for groups of several stations in Michigan. (Data supplied by State Board of Health.)

Years, etc.	Average atmospheric pressure,—inches of mercury.												
	Annual av.	Jan.	Feb.	Mar.	Apr.	May	June	July	A	Sept.	Oct.	Nov.	Dec.
Av. 19 years, 1877-95.	29.136	29.152	29.164	29.132	29.120	29.095	29.097	29.115	29.136	29.175	29.154	29.150	29.148
1895 .....	29.125	29.044	29.126	29.119	29.125	29.135	29.184	29.125	29.077	29.136	29.152	29.201	29.072
1896 .....	29.137	29.208	28.979	29.149	29.161	29.078	29.105	29.134	29.152	29.129	29.153	29.175	29.214

**Table 88.**—Average daily range of atmospheric pressure, by year and months, in 1896, compared with annual and monthly averages for 1895, and for the 14 years, 1882-95. These averages are for groups of several stations in Michigan. (Data supplied by State Board of Health.)

Years, etc.	Average daily range of barometer,—inches of mercury.												
	Annual av.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	O t.	Nov.	Dec.
Av. 14 years, 1882-95.	.211	.305	.306	.256	.217	.165	.135	.127	.131	.165	.212	.248	.268
1895.....	.201	.316	.266	.238	.152	.150	.117	.157	.135	.193	.241	.212	.236
1896.....	.206	.226	.307	.286	.176	.186	.135	.148	.156	.232	.131	.254	.235

**Table 89.**—Average monthly range of atmospheric pressure, by year and months, in 1896, compared with annual and monthly averages for 1895, and for the 14 years, 1882-95. These averages are for groups of several stations in Michigan. (Data supplied by State Board of Health.)

Years, etc.	Range of barometer,—inches of mercury.												
	Annual av.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Av. 14 years, 1882-95..	.962	1.285	1.336	1.127	1.049	.804	.706	.595	.601	.792	1.017	1.116	1.140
1895.....	.888	1.446	1.225	.916	.925	.667	.562	.720	.527	.660	1.039	.968	1.000
1896.....	.884	1.051	1.169	1.075	.901	.804	.617	.499	.734	.956	.815	1.012	.981

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